

OUDEN ATTACHED?

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MAY 1992 £3.95 USS6.96 CASI. IIS EM20 PTA 195 £13600 AN EMAP PURCICATION

L. AT BUT - A Child HARA PATIENT DELIVERANCE GLOBAL EFFECTS. EYE OF THE BEHOLDER 2: FIRE & ICE: APIOYACSTRIKER MIGHT & MAGIC ROUND UP THERE 30-PAGES OF SERIOUS SOFTWARE LINGER TEST



# ARE YOU READY FOR A



selectable' mades.

\* Armed with impressive lazers and a missile quidance system.



reserved. G-LOCIN is a trademark of SEGA ENTERPRISES

Fate of Atlantis Action Game Nazi Germany has rediscovered the Lost Kingdam of Atlantis, and with it the formula to produce the ultimate bomb. Only one obstacle stands in their way Indy! 9 lavishly detailed action packed locations.

. Dazzling 3D isometric world - click from one camera angle to the next. · Awesame animation, music and sound effects.

> Indiana Janes™ and the Fate of Atlantis © 1992 LucasArts All rights reserved Indiana Jones and Lurashim Atd.

# ... SERIOUS EXPERIENCE!









The Aming is no originals preatile machine which is continually evolving and expecting. CV looks to the fulure of the machine and select was now expected by some In lease, of said-see, ...



31 THE ULTIMATE AMIGA... In a month when Commodore Institute enother methics in the proving Amica range, this time a low-end ASCO Ples, speculation grows over wheil the most boid slep into the unknown will be. The A4000 - what will ill need to be like in order to saloguerd the luttre of the Amiga against the PC threat? What do industry leaders, software houses and perhaps more importantly, the end asses, want from a new

machine? As we investigate the possibilities we also investigate what is available now to those witing to pay for it - can we create tomorrow's mechine today? Is the Amiga still holding it's own against the other 16-bit home

computers and consoles? Investigating the machines available today we take a closer look inside the A500 Plas and examine in detail what makes it special. Also in this special feature, we look at the sort of hardware and software that can be rounded up to make your Arraga into a PC-bealer at a traction of the price. The full are is wide

open and it starts here in another CU speciel report.

48 'ERE WE GO, 'ERE WE GO, 'ERE WE GO ... As the European Championships draw ever closer, computer Football games are becoming big business once more. With Anco's legandary Kick Off Fermanilly reigning supreme, can envious knock it from its perch. CU Amage is on the tonchine as Ranngade's newly-acquired Sensible Soccer, Rage's Striker, and commisss other contenders for the trophy run on to the pitch. And what's happened to Alck Off 699 Forget other preview set tions. If you want to know what s in the running, this is the picce to be.

Front Forms Agreements Managem For Girenter Deputy Agreements Managem Montes forms makes programme Kores Neil Co. BOS / PRODUCTION MANAGER Turn: Selfs PRODUCTION ASSISTANT Enter Tried PURLIMENT Gurry Williams, SOCTOBER & AS CII AMIGA Offices -Priory Court, 30-32 Ferringdon Lane, London SCIR 3AU Tol 071 972 6700 FAX 555161 Subscripturas - PO Sen 500, Leccenter 1259 OAA Sie Singuras - Tel (0.51) - 410516 Oeke | annexiphone| 0858 410851 Bock Issuer - P O Sen 500, Leccenter, LESP DAA Tel (0858 410310 St

ABC







#### ALL THINGS F The ever-bustling Public Bomais

access has thrown up yet another array of espectial meanderess and ashetlevable stillies, and CU Asins In horn to bring you all the latest advences on this most expiting of aircalts, Samele feas - and Resers in particular - will find renditions of 'The Bosocer' and Opus M's 'It's A Fine Day', and Washe Jacky rather yat another dome appearance is a empligition of his much recent work. Moonwhile, Eric Schwartz is back and In fine form, and other www-catchers incinde a rather spiffy Lemmingo-ori getated Asteroids alone, a series of Sertical (Sectorious and famous comin actiot, Brian Hellood, makes

his Amino debut in a sturniss alideshow of his atenning Judge Dreed and Ratmon Hestrations.

#### REGULARS

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For those of you struggling with AMOS' many func-



Joe In South here - emersory of Barrer



Calus Takno Ami



using the Amigs. New yide on the block, To so Mester come under scruting

### **COVERDISKS**

here lemed for their up-to-thenanute demos and variety of utilities and accessories, but this month we've not to admit that we've excelled ourselves.

Leading the way is Byte By Byte's stunning Sculpi 4D Junior package and we're giving it away in all its ontirety. for package dpt 4D Junior is the perfect entry to get-

ting into 3D animation and rendering. In addition, for anyone who is struggling with limited disk space, we are also giving you Powerpacker 3.0, too. This essential

utility can save floppy users up to 60% of their disk space, and is well-supported in the PD circuit. Also, should you wish to upgrade, there's also a demo of Powerpack 4.0.

Finally, games players haven't been neglected, either. An entire jeyel from Ocean's The Addams Family awaits your attention. Comprising the geon section from the final game's five-etage house, sil manner of ties and obstacles must be avoided as you guide Gomez eround the

sprawling mansion as he eserches for his kidnepped son, Puggsley. FOR MOSIE INFO ON THESE OREAT DISKS, TURN TO PAGE 18...

O A M E S 45 Ocky and Spooky, we enter Screen Scene with our exclusive review of Ocean's The Addams Family. As the Mancunian company attempt to bridge the gap between the Amiga and Console markets, we've there to tell you if they have succeeded. Supporting Gomez and Co., we also have reviews of Knsalis's John Barnes licence, Renegade's Fire And Ice, and 21st Century's Deliverance. RPG fans are similarly well catered for, with U.S. Gold's Might And Magic 3 and Eye Of The Beholder 2 making their long-awarted debuts along with Gremin's Space Crusade.

TECHNICAL 106 LET'S OANCE Ray-Tracing is made even easier as Ray Dance hits the unsuspecting Amiga. Mat Broomfield explores it many applications and comes away outably impressed at its speed

111 BRIGHT SPARKS Does the thought of linking a series of circuit board experiments to your precious machine send shivers down your spine? It needn't any longer CU Amigo enters the world of electronics as we dissect Catus AB's Tekno Amiga.

115 MAKIN' MOVIES The use of the Amiga in video work is becoming rapidly more easier, and the array of fades and wipes your machine is capable of are ever-expanding. Chris Jenkins looks at two new bundles which hope to ravolutionise this eveiving markst.

120 VISIONART Ever since would be adventure writers dipped into The Quill, they have haped that, one day, they can produce something to rival the likes of The Hobbit or Twin Kingdom Valley With adventure game systems growing ever more complicated, at last there's a package to allow you to design your own catacombs and the creatures within them.

168 WHEN IT COMES TO THE CRUNCH Archiving is an essential means to getting the most from your disk space. Mat Broomfield looks at the options available.

COMPETITION 140 Win your own PD library 167 Special Australian compo



The "Black Crypt" ™ positively oozes with twenty five of the most hideous and despicably cunning monsters.

They await you in a dozen plague-ridden interconnecting dungeons, on 20 spell binding levels.

The most heinous among them is the Dark Lord Estoroth, who, many centuries ago, had been banished from the land by four Guardians with awesome

supernatural powers. In the process, the Guardians and their weaponry had been lost.

Now Estoroth is back, seeking a ghastly revenge against a defenceless people.

Your task is to lead an intrepid band of adventurers to retrieve the mystical artifacts that may hold the power of the four Guardians and provide your only chance of saving the world from evil.

The "Black Crypt" is the most electrifying fully animated dungeon adventure, with exceptionally detailed rotating point-of-view perspective.

It features real-time combat and spell-casting, all in 64 colour extra half-brite Amiga graphics.

But be warned, you enter this breeding ground of evil at your own peril. And hopefully not on a full stomach.

EL CTRONIC ARTS

£25.99 Available on Amiga.

Electronic Arts, Langley Boulness Centre, 11-49 Stetion Rd, Langley, Berks SL3 BYN Tel. 0753 549442, Fast 0753 54667.

#### THE RECESSION BYTES DEEP AS ELECTRONIC ZOO CLOSE

### RECESSIONARY BLUES

There may have been a general election, but the recession is still biting hard. CU Amiga reports on two important casualties of the present economic downturn and asks when will it end...

#### **ZOO CLOSES**

European Electronic Zoo, privayors of fine quality software such as Missic Garden, Germ Crazy and Under Pressure, ere no more. Apparently, the firm went under due to liquidity problems, but Zoo boss. Slowart Bell, was unavailable for comment as CU Arriga went to press. Despite a patchy track record, Zoo looked sol for beder things with the recent release of their massive RPG game. Abandoned Places. Scoring a healthy 83% in the March Issue of CU, the game reced up the charts

Sadly, the company won't be shie to seen the rewards of the geme's success. Coming inst months after the Mirrorsoft crash, we're left won



dering how many more software companies will be forced against the wall. A good Amiga game can atili expect sales to the region of 20,000 copies. but average tries are failing to shift more than 10,000 nnits. Thet's an important benchmark figure as when you take into account the development, production and advertising costs a company incurs during a game's menulecture, things will gel bob! II sales dip below this magic number. Already, there have been rumous that some firms are consider-Ing ditching the Arriga over the sext couple of years, and moving towards the burgeoning con sole market. This has already becomed in the ST market and whether the Amige soffers the same late rests firmly in the hands of Commodore Although sales of the Amiga are at an all-time high, there's up doubting the need for a substantial upgrade in the near future. With the ASO0 and

#### until we can take a closer look at these machines AMIGA CENTRE SCOTLAND TO CLOSE ITS DOORS

we won't know for snie

meny, Amige Centre Scotland is closing its Edinburgh-based shop ACS is well known in the industry as being the home of the Heilegnen, the only true 24-bit display card available for the

Amiga, as well as for their part in organising is sones of Animation lestivals and as a local point for Amiga awners north of the border. All is not doom and gloom, though. The reason given to: The move of premises and the public lock out is that now ACS will be able to spend ment time on research and devalopment of luture



Herligniu nogrades and possibly some entirely new products, as well as selling releted packages by mail order. 'Now well have time to do some work without having to bother selling printer cables,' commented Martin Lowe

What the closure does mark, however, are tha lough trading conditions hitting the high street. After the boom panod of the fale 80s and early 90s, the harsh register of a boal connamy have come home to roost and many independent computer retailers ene finding it tough to compete with the big chains.



In case enyone needs to got in touch with Amiga Centre Scotland, then new eddress is Harlegnin House, Welkerburn, Peebleshire, Scotland EH43 6AZ, You can call them on 089 687 583 or fax ou 089 687 456.

#### SILENTS QUIT **DEMO SCENE**

Top Danish dame creators, Silents, have ma their last megademo for the Amyra. In a shock development, the Jean have released their stunning follow up to last year's Global Trash demo ou video tape rather than floppy disk. Apparently, the group have become distilusioned with the scene and the technical restrictions imposed on them using disks for distribution

Their new magadamo, Global Trash II. featness live Carricorder foolage shot at e Reve, juter spersed with some stunning new Arriga effects.

Beginning with an supredible fog effect. musia begins slowly before building up into e Hardcore rave best. Interestingly, there are no sciolies, piesma or bob effects to be seen, only a host of amazing new effects. One of these leatures a Sculpt

4D enimation of a man's face rotating [ hroun) 360" and its synced fhroughout

Silents have also branched out Into geme design, and organized 21st Century's Parket Docums which we reviewed lost issue. (Infortnestely

the game was cracked before widely dis tribnied on Bolletin Boards throughout Enrope. Undeterred, the Official are pon sidenng a



the finishing touches to an es yet nndisclosed project.

#### **BUNOLES ONLY FOR GVP ACCELERATOR**

A flood of GVP minicards are due to series in the UK by the time you read this. The ard variants, including at the moment an appalerator and a PC emulator, are an easy upgrade path far A500 owners, Fitting Inside the GVP series II Hard Drive. the minicards don't require any modification to the A500 iteatf, leaving warrantles intact. The ability to odd on an accelerator in this way is a first, and it's just as well that GVP have done it, since the Series II is notariously unfriendly to third party accelerators installed on the motherhoard.

Originally billed as add-one, these minicards will now only be available in the UK as part at a campleta unit. However, existing owners will be offered some eart of upgrade path, Said Andy Leaning of Silica: 'We are not sure what form this apgreds will take or how much it will cost, but we will not desert our customers."

#### DTP ON THE CHEAP

of an entry-level DTP system. Planced to cost less than £10, the package will include some fairly advanced leatures, including Compugraphic Font support, a window-breed text editor, and variable zoom levels.

At present, the only sub-£10 package is Foxbase which isn't exactly a great advert for the PD market 17 Bits system will be updated every six months or so with trade in offers available for existing users. Extensive professionally-produced documentation will be provided although the system does include a very worksble on-line help system.



#### **BEAT STUDIO** ON THE STREETS

the Amiga. Best Studio Includes a compact stared ADC interface with twin phono inputs and a jack lead for connecting to Walkman-type cassatte or CD players. The software support has been provided by the author of Technosound Turbo, once regarded as top of the heap of Arriga samplers.

Advanced features will include samples at up to 36KHz in steeso and 57KHz in mono, simulated stenso mode, real-time echo effects, and a variable digital delay to program the echo. An unusual addition is a range of real-time voice-altering effects (gueranteed to break the ice at parties). Also included in the software are some feirly extensive looping facilities, amongst which are reverse loops and sweep effects. Another interesting inclusion is s RAMscan mode - in effect a built-in "Ripper" which enables the user to lift samples from other packages

Best Studio is priced at £39 95 so it may be worth giving City Best a call on 0234 857777





riately marking the 30th enniversary of the BBC's cuit sci-fi show, Doctor Who, Alternative have senousced that they've secured the rights to produce a saw Doctor Who game. Visiters to April's European Computer Trade Show were greated hy ose of the Doctor's Dalek foes sed an edverticing hiltz to publicles the geme.

which is due out leter this year as either a mid or full-price release. Previous attempts at converting the popular show late a playable game have been ughable effairs. Apart from a same that appeared on the BBC Micro, the most famous attempt at the license was MicroPower's Doctor Who and the Minds of Terror which was released on 8-bit machines more thes five years ago. Unfortusetely, MicroPower only secured the license for Colin Beker's Doctor Who persons and, thus KS became a mechanical cat and the Daleks were replaced by what loshed like

uptures d dustbine on wheels. Scant detelle are available about the new game, as the title is still in the planning stages. First ideas revolved around a maze game set on Gallifrey, Bkaro and Teles, similar is style to PacMan. Doubtless things have moved on space sless then, though, sed we'll bring you a First Impressions piece as seen as we can.

iss of the A ly lavalued or they we





### P P PICK UP

After buying ad space in Millennium s Robocod game McVities Penguin chocolate bars are sel to sponsor the GALLLIP charts From the beginning of April, all ELSPA charts will feature the Penguet logo and characte What interests up most is the fact that the deal was

out together by Micro-Time Media, a firm who specialise in Belling advertising space in computer games. The ompany were also responsible for placing billboard adfor Seven-Up and Duckham a motor of in Microprose's

#### CD ROM LAUNCH DELAYED. HEY GOES HARDCORE



recent Formate One Grand Prox and have a number of other deals in the pipeline. Such product placement is common practice in American moves, where nothing appears onless it is been paid for, and Micro-Time look, set to successfully import the idea into computer games.

According to MTM boss: Garriy Selvert, groupeds are only placed when they will be new the time gare may only placed when they will be new the time gare in early way. Obviously, Seven to and Duckhams were naturals for Grand Prizard actually without acts strucks. What next, but you do not not not selver the conditions of the control of

#### HEX GOES HARDCORE

The world's first heidcor's rave CDTV release, Globel Chaos, is set to be unleashed sometime in May from movative publishing house, Heis II the name sounds farmina, that's because the same company ware also behind the speciacularly bad Top Benatin gama, released at the beginning of

The CD combines snimation with three ambient house tracks and foni hardcare techno tracks. Anyone who saw the smart intro to Top Burance will know what Hex are capable of, so expect more of the same. The CD will initial for \$29,99.



#### CU ON-LINE

Well, not quite but we will be soon. So if you've gaf a modern you'll be able to bomband not with all sorts of times aver the phone lines. Until thinn, we've set up a CU conference on a number of boards. Anyone weithing to confact un can likely e mestage on the board in the CU AMSA area and we'll get back to them as soon as basistie.

Node No. BBS Location Phone No. 2:255/406 The Hotel BBS Rochester, Kent 0634 831389 2-255/400 The Silver Linh Talford, Salop 0952 641724 2:255/404 Reachout BBS Crewe, Cheshirs 0270 583287 2:253/510 Amiga Juacties London/Sarrey 0372 278000

### CD ROM LAUNCH

No scores have Commonists procilled in a referes ofth for their CO Plant register than laber primary change than which CO Plant register that the procincy change than whole Debys have selected by the special plant and new work first leaked of the selection plant and early low according to reliable information leaked to COI, the machines is reliaced that has been debysed once may contributed with one have the set of the Septembry at the earlest to get that write on one of the drives which effectively resolutes and ways from COIV's detained.

Rumous period ebout incompetibility problems with be machine, and the cooled to not reason for the daily Another could be the desired of desent software support for the CDTF Fee little sear worth buying, and many any and supports on coiles of ensiring Amiga bothware. Until them's a good selection of utilities and quarter sanding variables the machine, Commodore may keep on delaying its leutich to incentified.— which knows.

#### MORE FROM MAXIS

Simulation specialists Micros, laive bein exceptionally busy of late. Due for referse within the next couple of encents is the Armagia version of Sim And which should be microsed next issue. Then, towards the end of the year, we should see A-Trains, a railway construction game of encentress depth set to Arial Microsovi's Taximum Syconom.

Sim Final's adheduler for influence mely ned year and year, it will simulate the rusining of a time competitive with they livers and food and Mouth filescess. Later still, comes Simulative mely adaptive sell greated a fel-form from its early princed all inspection sell greated as fel-form from its early princed all inspections and the self-form process. Them as the chances to later and consisted with year closure stockers, so this graw will form the fel-form from the consistency of high metallary you sill forms it fels all means or c'weet to high metallary you sill forms it food.

At the back and of 1983, connect the sequel to the swardwinning Sim City Imaginatively total Sim City 2009 the game provision to be immense with the city of intrastructure expanded considerably. These till be imany more construction locks to juggle than before and there will also be an

#### X MARKS THE SPOT

the data after entirely eyes of characteristic feeting find the analystic way failing in condent tracts the suitable production and a suitable condent of the suitable condent feeting flowler content of the six in the SIGO would content flowing flowlers content of the six in the SIGO would content flowings flow and sales were reasonable to be market flowings flow and sales were reasonable to be market flowings flower flowings which is the suitable flowings flower flowing ships of profits and consider formula failing which content good competition from inflowing flowing ships which content profits and consideration of the suitable ships competition from inflowing flowing ships flowing ships flowing ships flowing ships flowing ships flowing ships and the ships flowing f



The pristar war is on again as Hawiatt Pachard lasent their awa sarry level systam. The NP Laserdat IIPplus is a cut down varsion of the industry standard is laser printars. Incarparating the proven Hawiatt Packard anglise and 512k of memory, the sew pristar is almed at peopla who use an MPLJIII is the office and want a similer standard of paritar lechsalings at home.

anotysy at norma. The litiplus is fully apgredable with larger paper trays, memory laserds (ascasary for heavy graphics work) and area as HP PCLS carirdigs to allow full compatibility to the latast Lillif rangs, although you may find that simply helag as Lillis good anough to most applica-

Ose of the HP a claims far the Lessifiality in a thet, ethough its tap speed is a more four pages per misute speed, as its another of tall page copies that can be subjut in a minutely its actual engines speed (the time it takes paged). The speed is a time in the speed is a speed its actual engine speed (the time it takes page) is way shand of most other gyesterms. Incorporating a 19MHz processor and any internal herdware HP claim a continue of the speed in the speed in

The price may still be a bit steep at £568, aspecially considering you will need axtra memory to take advantage of full-page graphics at 300dpl, but at least H's a move in the right directios.

#### SAMPLER FROM SUNRIZE IMAGE MASIER RINAMED



### GAME MUTTERINGS

Miryana, the learn responsible for Ocean's Eff, are as its backdrop, and The Edge is a blaster requiring stratogy as will as 4 gun happy Ingger-finger Geiger ' Stant Island from Disney, allows players to dustion, the port from their own stricts. Expect It exits next year. \* On a similar theme, Disney are also work ing on a Roller Coaster sim which lets the player construct their ideal ride Loopy, or what? \* CDTV Total Carpaine, the last-spond follow up to Smish TV. is sal to debut in an arcade amportum near you this month. Whether the licanse will be picked up by



#### IT'S THE END OF THE WORLD AND WE FEEL FINE

agéec Design, the force behind Viking Child and Mirage's forthcoming Humans, have yet snother game up their sleeve. Ragnerok, siso to be published by Mrage, is



ancient Norse Table and Involve a hattle revele between the gods of Viking mytholpay. An intribuing

stralogy board game for the home computer, Regresok lets the plever assume the ouse of Odin, king of the gods, and pits him against a variety of evil gods and their hend men Regnarok has only just started Mirage are looking lowards a Christmas release

**REALTIME 12-**

### **BIT ANIMATION**

Avideo is the latest vides product to be takes on by Checkmate Digital. Hevieg been stung by Blach Belt with Ham-E, they are obviously leaking to outdo the revemped Amigs when it eventually

AVidee comes is two configurations. The first is a 12-bit board, which only ellowe up to 4096 colours (the same or HAM) but it will do so le Hi-res letarlaced Overecae mode (768 e 580) and without any of the fringing affect essociated with HAM. PtP (sicture is picture, or the ahility to have mixed resolution screess) will be supported and the package will come complete with application outware sed as offer for TVPsint, widely accisimed as the best professional point pachege.

Avideo 24 is sessatistly the same only with the camebility to display 24-bit Images at 769x580 resolution and conse quently, the ability to double buffer 12-bit imeges for enimatics purposas Unfortuestaly, seither of the boards follow approved expansion paths, though, and to fit ose to an A500 will require the user to invelidate their werranty and mey step it from workleg with other peripherals or software.

There is nothing especially impressive In the specification but whee you look at the pricas, with Avidee12 at £248 and Avideo24 (Isaludleg TVPelett.5) at £599, you may want to give Chechmate Digital a ring on 871 923 0658

#### **CD-QUALITY**

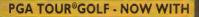
SAMPLERS ARRIVE The latest hot news from SunRize industries is that

they are now shipping their AD1012 samples board. What sensitives this from the rest of the crowd is that it can somele at 100,000 samples par second, gwing a sample frequency range up to 50KHz - well above the range audible to the human ear and almost twice the frequency of a CD piever, In addition, the AD1012 samples of an enhanced sets of 12-bits giving a 4096 level sound resolution (e dramatic increase on the 256 level resolution currently amployed by standard Arriga

The card can play back four channels of 12-bit sound simultaneously and decode a SMPTE time code for Video work. In fact the card is Totalist competible and includes a SMPTE generator to ingger a cue-ist without the need for an external time code incorporated in the board is a 2106 Directal Sound Processor to 40MHz chip rated at 10MIPS). This is a custom co-processor which, rather like the bitter, handles all the sound fund tions without too much Interference from the Aminu's puncessor. This enables the AD1012 to be effectively used in multimedia applications where the Amiga is needed to simultaneously control graphics and disk accessing as well as sound

The ecompanying software, Studio 16, allows direct sampling to disk. Many record companies are now using this method to prepare digital masterm for CD reproduction. Unfortunately, el 5Mb per minute, you'll have to have a fairly big SCSI drive before you can master Tubuler Bells for yoursell Updated 16-bit versions, which will actually give hetter then CD-quality reproduction, are promised soon, although pricing and release dates have not yet been given.

#### BY ANY OTHER NAM



### 3 NEW KILLER COURSES

TO SINK YOUR TEES INTO.









Perhaps you were getting just a touch too big for your brogues because you were up there with pros like Azinger and Stadler out at Avenel, Sawgrass, Sterling Shores and PGA West Stadium?

Instead of retiring smugly to the 19th Hole for a few rounds of Scotch, it's time for a brand new challenge in the shape of three new tournaments: The Honda Classic, The Phoenix Open and The Federal Express St. Jude Classic.

Electronic Arts present three more authentic PGA TOUR courses - TPC at Eagle Trace, TPC at Southwind and TPC at Scottsdale.

Plus, you get all the features that have made PGA
TOUR Golf one of the best

selling computer golf programs ever: fly-by course previews, hints from the pros, TV-style coverage and realistic crowd reactions that reflect your best shots... and biggest duffs.

and biggest duffs.

So don't putt around. Get your clubs out and prepare for three new 18-hole challenges.

You can find them in the new PGA TOUR GOLF PLUS edition, which also contains the PGA TOUR Golf program and the four original courses.

Or, if you already own the original PGA TOUR Golf program, find the three new courses in the PGA TOUR Golf Tournament Course Disk.

#### PGA TOUR GOLF PLUS Edition

Amiga (29.99 IBM/PC (34.99 PGA TOUR GOLF Tournament Course Disk Amiga (14.99 IBM/PC (14.99



TPC Transmissed Papers Claik.
The Honds Claims: The Plannis Ogen, The Federal Operso Injush Classic, and the NI TOUT got help of Princed larget and major and amount. Bictiron: Arts, Langley Bassess Centre, 11-49 Station Road, Langley, Berles S.J. BYN.
Tel: DYS 5-694-40, Faze DYS 5-644-77



#### **NEW AIRCRAFT JOYSTICKS**

For committed flight sim users, Quickshot have released two ki-tech joysticks to provide extra realism and control during play. The intrader is a new one-handed, alroreft-type joyetick which offers duel firekuttoes, two-speed turbo fire control and and restricted to be successful to the successful to the successful to the successful to successful the successful to the successful to successful the s stick should be in your local software emportum this menth. Also se offer in the Avistor, featuring as sy-to-grip kendles, sititude and level indicators, frame-by-fras als w motion capabilities, four positive response firebuttees and two dual speed turbs-fire selectors. Suck options don't come along, however, so the Avietor will set you kack £34.99. We'll have a full review at both sticks next month.

#### FREE EDUCATIONAL SOFTWARE DIRECTORY

If your local solishop is a bit lacking in educational software look no further than Rickett's Educational Software Directory. The latest 1992 edition weight in at a massive 96-pages and covers all major computers including the Amigs. Where more, the catrionus includes details of more than 500 programs with informative descriptions of each package and easy-to-order instructions.

The Educational Software Directory normally retails for £1, but is available free to CU AMIGA renders. To get your copy, simply telephone Rickitt Educational Media on 0460 57152, Fax them on 0460 53176, or write to them at: Illion, Illminster, Somersel, TA19 9HS, stating that you read about their catalogue in CU AMIGA.



# SHOW CALENDAR

AMIGA SHOPPER SHOW

Lots of bargains on offer for everyone's favourte machine, plus your chance to try before you buy. Tel 0225 442244.

ALL FORMATS FAIR

Sandown Park, from this popular show full of out-price software Tel-0225 868100.

17m MAY

ALL FORMATS FAIR Bristol. As many dealers as possible crammed into a small space, selling incredibly cheap software and hardware at a fraction of the usual price. Tel. 0225 868100.

19th-21st MAY SOOTTISH COMPUTER SHOW

For those living north of the border, here's a show chockulati all the letest hardware and software utilities. Tel: 0622

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SPRING COMPUTER SHOPPER

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Parvone has any information on an upcoming show and would like a free listno, please mp CU editoral for a menton on this page.



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# your file.

space, but it will also take longer to crunch You can else sel the decrunch colours. This is just e bil of fun, really. As it works, it simply liashes the screen using a myried of coloured bare, and looks rether similar to the way the good old C84 used 15 took as il loeded gemes. In

order to let you kenw that some thing is going on whilst decrunching Powerpacker will

cycle the polours or workbench or the pointer. There are a sets Digit word great years feest upmultitude of other preferences but they ere strictly the domain of the more technically minded. If you want to find out more about them read or print out

The more setute of you will have noticed that there

are two full commercial programs on CU's Disk 32 South Animate 4D ir may be the more exciting, but that doesn't mean that Powerpacker is any less useful. For a start, how do you think we menaged to hi two commercial programs on one disk in the first plece?

#### INTO THE ARC

Powerpecker 3 0 is a cruncher. In order to get more out of your magnetic media, you ere bound to be considering the archive option. This is where the data or program is compacted by vanous binary tree or other algorithme. Instead of holding the pure data, the archived file will contain instruclions on how to creele the original data. The problem with erchiving data is that in order to use it egain you must first unerchive it. This can take time can be annoving and even impossible if you have already used up live space you "seved" when you archived the file in the first piece. The answer to this problem is a crunches

A crunches will compact data, not as well as an archiver maybe, but when it has linished, it writes a special decrunching header on to the hip. This means that when the his is executed it autometi-

SUPPORT Subind every good nicitly there is a send suggest life. The PP range of lifes are liexible and useful - even II you never usn Powerpacker. PPMare is a replacement for Workbanch's More utility. In addition to reading standard lext files. PFSfore will enable you to read crunched lost lites immediately - without the

need to decrunch them tire! PPShow is a similar ntillty which will rapizy enime-Powerpacker and reglesis libraries in your workbanch directory. To install these librarius simply book up on Workbench, soun a shall and type

> copy CU32 libs/regionis lib libs copy CU32 Hhs/pownrpacker Hb lifes

The literans are now installed and you will be able to ran Powaroucker or any of the utilities even II you have not booted from the CU32 coverdark.

cally inggers unpacks the program. memory, This user, the only

side effect being a slightly longer loading trine

Preservacion Professional has executed to

FORD THE ROLL

**GETTING ON WITH IT** In use, Powerpacker is simplicity itself. First of all, before you even decide what file you want to crunch, you

select the proferences you went menu Firstly, you

will went to

buffer size (smell, medium, or large). The buffer will produce a great increase in speed so it is wise to give this as much spece as you can efford. Be wery of using a large buller size on an unexpanded machine, Ihough

The second thing to set is the efficiency Obviously, the best efficiency means that the file should be optimised to the smellest emount of

ATMENDS OF THE PARTY OF REPUBLICAT PROFESSIONAL 10 0Cale

The letted version of Presuppocker has Affect support for Integer modes surfable with the Enhanced Chip Set.

#### THE CRUNCH To start e crunching operation, simply select

Loed from the Project menu. A requestor will pop up asking you to select a file to load. Navigate eround the directones using the padgets and options to select the life you want Select OK and as the tile is loaded in it will automatically be crunched.

A percentage times will appear showing you how for there is to go with another percentage showing how much space has been saved. If a any time during the crunch you get bornd or decide Ital you wanted to use different settings of you can abon the crunching process by holding down both mouse buttons

When everything is finished just use the save option to re-write the file back to the disk (or enother disk) Dale files will automati cally be given the 'pp' extension. This has no particular evil or arcane significance, but if does make if a bit easier to work out why VILBM won I work with what you know to be a picture life To really get to know Powerpacker you

should read the doc files on the disk but you can easily get through the next twenty years willhout ever needing to know whether you should elocale BSS to Chip

DEMO Also on this month's u lisk is a deme of the very latest use of Powerpacker V4.0. This n sion takes edvastage of some the special features of Workb 2.0 (If you are backy secure t

ne version will sllow you

save the files egals once yes ha crunched them - after ell, it is a a demo. Luckity we are deing a great upgrade deal far readers CU. See the coupen se page 15

### **CHIEBUSKS**

### ROTUTE OF LATING

You're probably already seven of it, but fise on the cover of this north's issue of your fevorable Amige magazine is one of the best 3D graphics procluges around Soute! 4D Junior allows the user to create high, includely-designed sole of optics, and colour or light them in any way you live. They can then either be saved as postners to way oper friends, or, with a title effort, be used to creek sturningly real-siste animapore.

One of Sculpt's best assets is that it is so easy to use, and these pages are designed to help you get up and running with your new utility as pricely as possible. For hull details on this excellent pack tight, please refer to this lissue's 24-page graphica and animetion snoplement.

#### **BASIC PRINCIPLES**

Before I explain what hose three windows on a screen ers for, let's spond a moment group in the basics of three dimensional dimension, Anyone who has ever been movived with solutional developed actedy Liquid necessand the grouped before diverse magos, and can happly soly to the next section. For engoing etc., the fundermentals behind Sculpts drivening system will take a little worldning.

Europody knows that you cen't drive a frow firmed crimination object in the offerenzenic. It can't be down. To fully display an object is size and shape on a flat pixel or ol paper takes there drewings, one of which is to represent a view through a week-stame motified is shape. By done they one can bell exactly what the shape looks like from all seeks lang bellow you've antable states to build in shape they bell on the shape of the shape that they bell on the shape bell on the propriet of build in this way, building in three separate amentions, believe the propriet process them to pulse the propriet of the pulse.

#### THE TRI VIEW

The three windows shown represent the current object or area of an object which you are working on and is shown as a wire-freme image from three different angles.—Irom above looking down, south of the object looking north, and east looking, owth and lest looking hort, and lest looking order of the lest and lest looking order of the lest and lest looking order of the lest a comer in one

window, and the same corner will be highlighted in the other two. The makes it easier for you to place objects precisely, and no guestwork is meroked. Take some time now to experiment with the triviews. Using the left mouse button to place the curran in evy of the three windows and waich how the curron in the other had move to give you no recoil social where to 50 space life cursor. It is you contracted with a comp, then positive the cursor is an experiment of the comp, then positive three positives and positive to the cursor and three exists of poposities tolen. The nursor is representing the pour fail which the light is entire, ingo the box. When contribined, these referring you of whater is in the box the three light beams meet, it

### manipulating points in a 3D environment. TOTAL PERSPECTIVE VERTEX Before you can del drawns, you need to under

stand how shepes are built up. Objects are created from sets of dots, called vertices, joined together with straight lines to form edges. When lines adjess are joined together, they form a lace, and



### ulpt 4D Juni

thing that Sculpt can display in 3D. Strange as it may seem, all objects have to be built from those triangular faces, and Sculpt worl'i recognise them as faces nniess they are triangular. To demonstrate, let a try a simple example.

More the curior anywhere within the down window hold own he held button and click once on the night to prince a vertex. A small yellow dot will poper to let you how a 5 then. Now place another two anywhere on the Same window, so the colds form a limited, Firm, we have up or thee vertices. Now we have to job them in the bottom-bit course of the window is a small thanking place to course of the window is a small thanking place to course of the window is a small thanking place to course of the window is a small thanking place to course of the window is a small thanking the course of the window is a small thanking the course of the window.

With regard to the edging loon, it will only work. If the or three vertices are highlighted (colouned yellow), thus crediting one of three sides. If you limit it doesn't work, then you've probably last wo vertices very does legother by accordinately double colicking on the right mones button. Redmostral vertices are sately removed when necessary, but, just lor now go to the morn bar and solect 'lerese e'll', and replace you're very one.

#### DEPTH CHARGING

It's now time to add some depth. Move the mouse to the centre of your trangle, and click on the mouse button to position the carsor. Take a look at the north wandow and you'll see that the cursor is



#### LOADING

is lead, and which off your Antige for all leads III sectories, its persons in appendix of Vermann, leaver, your copy of Entight III and selfate, it is marches leave the seconds, the Windowski leave with the CO Governfield, how leads and years in this march is supposed. All the march is supposed to the second in the CO Governfield and A. Beathle click as the CO Governfield in the contract of the contract of the CO Government of the contract of the CO Government of th

Refers you can short findering with all things 40, though, the postupal's mousel preferables much be bypossed, hashe the 24-page anyplement given energy with this bease is a further gold to Sonife's many intrinacion. Within the night pages destinated to Sonife's you will that a last of the protection notice encourage in outer the will'the Limits outer to another the will.

outer the stilly. Simply enter it and year'l be analy to yeal.

Finally, to lead Awarmacker 2.0 and the down of EC.0, simply double-click on the congrired into, and the down or stillty will had not one within a few seconds.



We strongly recommend you make a back-up of Sculpt 4D Junior before usleg it, as It will protect your original against accidantel erasure or damsee. Dece copied, stesh your mester copy somewhere sale and work from

your new back-up. To casy the disk, you'll need a blook, formatted disk, It you don't have one, lead up your version of

Workheach, and then place the disk you want to formet is any drive. Welt for its Ices to appear, sed click on this cace - its colour will derkee slightly iedicates it is ready. Holding dowe the right mouse butten, go to

the disk mean at the top of the screes. Find the leitielies optice, and release the right butten on selecting It. After following the prompts to swap disks, a requester will appear asking you if it's DK to initialise the

disk le DFO:. Oe eeswering yes, another wiedow will appear, letormng you that the disk is le the process ot belog formatted.

Once it has fleighed, remove the disk eed lesert your Sculpt 4D Junies disk. Click on it once to highlight it, and hold down the right button. Ge to

the Workbench mens sad select 'Duplicate'. Fellow the on-screen prempts to make a back-up of your mester disk. Duce the process is complete, click on the capy you medi sed select 'Ransme' from the

Workbanch mess. Delete the words 'Copy of' from the disk name and

you're ready to get started. Remember, sace flaished, out your

master comewhere sale and only use your new copy.

pasitioned in roughly the centra of the line. We're plauting to make a three-sided pyramid, so positou the pointer a little way above the cursor and click on the left button. Once you are satisfied with the position of the cursor, place a vertex. You renow ready to add more faces.

Although the adoing tool is limited to three



there are four highlighted To deselect e vertex, dou blo rhris or if with the left mouse

button. Do this with one of your triangle's corners, and click on the edging tool. Repeat this on the other two, end - voilal - there is your finished pyra mdl

#### OBSERVING

For a purck update of your work so lar, move the pointer to the down window and dick is an area away from the shape, resizing the wildows if uso assary Click with the left mouse buttou, and so ic the north window to add some height. Theu go to the 'Observer' menu, and dreg the pointer down to your required position and release the mouse buttou. Go to Mode, and ensure it's in Scanline





Return to the 'Observer' menu, and drag it down to start before releasing the button. If all is well, in a secount or two you will see the outline of your pyramid. You can't see it properly yet, though, because it still needs to be lit. To exit the picture place the poluter anywhere over the picture and press the left button followed by the ught. The picture will now disappear only to be replaced by the tri-view screen. For the ofgremeutound l'furnustiou, vou're mains to need a large or two - for the most part, one will suffice, though Position the cursor user

the observer pos tion (marked with e small 'O') and select Add Lump from the edit

macu For back groundergo to the Select sky, and change like box at the top from by dicking on d with the left but ton I m sure you know how to use elidor bars by now, so set the colour of the sky Red. Green and Blue bars until you reach e



colour you deem Go to the observe

menu and click on start to see your first 3D work of art. OK, so it isn't labulous, bul you can't deny that it was very easy. With the bisses sussed, we'll move swittly on to some of the more advanced especis, including a look into the basics of enime tion. For full information, though, read the instructions lu our eugolement, which further explain the different loans' functions and will help you get the most from the program in addition, the supplement's guide else expands on the basic lae luies we have covered hais.



MPORTANT! united every at



#### HAVE A DRINK WITH CU

The life of this odd pacture is 'Have A Drink With CU' (it should be snb-nitled And Dan't Expect Them To Pay), and it light hard to indestand why 'Good as it may look, it dight take a great deal of time or ettor to do, and I prodoned this potentia after a mere who hours of loading and getting to grips with Soulpt for the first time.

To start with, you'll need to construct the CU letter ing. There are two

methods with which you do not do this. The prints is to plot such were tax, and join the Insa, no pose by one Or, alternatively, you can now the out to the your down to the your down to the your down to the your down and you are working the curve mode, the curve mode, the curve changes to indicate the mode switch Chave



allows the user to plot • vertice in the normal way, but keeping the left mouse button depressed whilst moving the pointer refeases a "tubbor hand which stretches from the last ploned war too to the currier. Subsequent vertices then allow you to draw a plotted conve, which automatically links itself as It goes. To start the lettering, develop with coding of the letter. C in this north window, and, when you close this loop, control link loop.

return to normal Select curve again and draw the outline of the letter U

#### EDGING TOOL

Rendering the picture now would have no ethect as there are still no laces to the letters. To rectify this, go to the tools menn, end select the adging tool. By keeping the night button depressed and



using the left button to start elline, this allows you to craw the edges between two points. Work your way through the two shapes, zig-zagging through them to full tham with transpies. You now have the letters CUstraicing proted, but

standing prond, but still a little fiet. To fetten them up, you need the extrude tool

Make are all the portion was decided, and clicic on the assistate tool's core assistate to the core and core assistate to the core as a co



"Cruise for a Corpse was
murderously good, The Secre
of Monkey Island sent
everyone ape, but now 'point
and click' graphic adventures
are set to undergo a

REVOLUTION"

...All real change must come through revolution...

Anon



the computer is joining there with connecting edges. Move the cursor to above the organal CU object and press the left button. Once you have lined it np, click the right button and you'll have your monotithin CU loop.

#### SPIN THE BOTTLE

The boths and glass may look impressive, but you'll be amazed when you see how like work you need to create them. Social the times when you have here they have been considered to the place when you want a boths to appear and select the curve tool imagine the boths had been call the queries only to length, and draw the limit as edge would looke. Possion the curver of the contra of the boths, and existed to South from the fact manual to the both the desire that we shall be selected to South from the fact manual water. If the manual water that the program draw the boths for you.



At the moment, the bottle is lying down and it needs to be upraght. Easier done than said. Scroll the th-new windows so that the bottle is the only thing on view, and then chick on the select all loom in the north window to highlight its vertices. Then nee the rotate loans to form the bottle upright. Simple Repeal the same process for any other

bottles and glasses you may ward to add. Using this sales method als before, one as the sky end ground. This time, however, site a look it the north and week whome. Alleg the middle is a stalget time, denoting the ground level. Any part of an object bloom in ward to seen, and any object not obscriving it will be seen in fourt. To reposition the wordows, and about the writer with the select all padaget Using the gratible from the lodis many. Up the object around in either the north or west.

#### TRI VIEW WINDOW GUIDE

Botted around each of the three windows are a large set of icons. Hare's a guide of what they

are and what they do:

1. Rotata
Anticlockwise/
Clockwise: Rotatas any
selected objects
eround the centre of
the wiedow.

 Front/Back: Standard Workbanch icons.
 These deal with the positioning of this window when overlaying others.

Rayaree View: Looks at the object from the opposite side.

4. Expand Tri-View: Look at a larger area via the tri-viaw 5. Shrink Trl-viaw: Zoom in on a smeller area

 Centre Tri-View: Centres the tri-view window on the current cursor position

7. Crabber: Used for moving already placed vetrices. Click once to activate. Click agein to descrivete.

6. Edga Builder: Click on this to connect two or three highlighted vetrices.

9. Setact: Highlight all vatrices in the tri-view window. Click again to deselect.

10. Mova Tri-View: Scrolls the tri-view window around the mein area.



windows to place the bottom edge on the line. With the grabber, you can also move the objects closer together to Improve the framing of the picture Conversely, place the observer away from the objects, just andve ground level, and place the target at the same height somewhere In the midst of your picture. Plece e lamp, as before, clase to the observe point to give the most light on the images - although some really great effects can be atterned through unusual lighting. Now render the final Image. In the meantime, as the picture is being rendered, you can muse on just how easy it was to do.



#### **GETTING MOVING**

Ammition is fast becoming one of the Ammatin stronged from promitionly with purposes like or DPFint IV. South 4 G. Aumor shale likes you to amterior program of the stronger of the stronger

The similation were going to products is an elementary designation of the similation of the similation





"Looks set to become Britain's answer to Sierra and Lucasfilm"

{Paul Presley . PC Review}

...All wickedness is but little to the wickedness of a woman...

The Bible • Apocrypha Ib.25:19

Place the cursor on the down window over the centre of the pyramid, and click on the "Centre win dow' your, Select the CU logo, and you re ready.

#### TAKE YOUR PIC(TURE) Go to the load menu, and select Load Take. Enter

the save name of your new animation, and go to the Modify Take option. Under "Number of Frames" pt-Injects 40 de : 'bersion [.4]

Mortan of Pracus'

Prouley gize:

Lone meda-

enter our key frames every 6 steps from 1. Olick on the first frame of the roll of film, and click on the word 'No' to make Frame 1 a key frame. Do the same for frames 7,13,19, 25, 31 and 38. Click on frame 1 again and then click on 'Save Key Frame' to store the current frame, and 'OK to close the box. Now to work on the next key frame. As the weather vane has lo rotate through 360 degrees, it has to rotate through 60 degrees for each key frame - with The exception of Iramo Blot sales 15441 36 in which it only has to face intest rotate 50 degrees. 11 you Animatine drawer: enter the last frame, the side ed f'now margorq to complete the animation, and to rotals the F R vane, make sure the CU lethering is selected and click on the clockwise rotation Icon 12 brass.

enter 38, and click on the word "Global" to change

the window to the Frame window. We're going to



KONTY DO

NE SLOBEL SLEE

SPOTE ALL

Take redo: Billia





#### TOTALLY

Then on back to the

Do this for each frame and return to the global window. Click on preview After a couple of minutes, you'll be able to see a wire-frame version al your enlastion, which will no doubt knock you silly if you click on 'Render All', the machine will begin the lengthy ren dering process Be

werned, though as this takes quite a white, but it is worth it for the Impressive, full-colour and solid object an mations it creates

#### YOU'RE ON YOUR WAY

And that, as they say, is all there is to it. Obviously there's quite a bit I've missed here, but you should be suitably expressed elready. Remember, full details on all the icons and further instructions to the program can be found in our supplement -Happy rendering

#### IF YOUR DISK WON'T LOAD?

is the unlikely event of one of your CU disks not loading, remove all external contridges and peripherals and try sgain Il it still won't load, pep the offending disk in as envelope and address it to: CU DISK RETURNS, PC Wise, forthyr Industrial Park, Pentresbach, Mid Glamorgas . CF48 4DR. They will then test the disk and send a replacement as econ as possible. Ring the PC Wise Helplins for any argent problems. It's open between 10:30 and 12:30 during weekdays and cas be reacked on: (6443) 593233. Whilet CU Amiga maken every effort to chack cever disks for all knows viruses, we can accept so responsibility for possible democ caused by viruses which may have excuped our attention



#### **EXAMPLES**

This exciting sequence was created using Sculpt 40 Jar's pewerful tools.









"Acclaimed as a revolution in game design, Revolution Softwares' goal is to change the conventions of role-playing games forever with..."

{GAMES X}

...Art is either a plagiarist or a revolutionist... It's creepy and exclusive, It's quality condusive, It's absolutely mahoosive...

## THE ADDAMS FAM

That's right, in an amazing coup, CU Amiga has trounced the competition to bring you an exclusive demo of the most eagerly-awaited game this year. So, get ready for an exploration of those ooky, spooky Addams Family...



forms giving way to revolving axes, guilloines and spiked



When Gotte in it, he will be importing twintible. He Se indicate this, so use the time to dodge any hammious area

asily one of the most eagenty-sweeted licences sweeter, The Addisons Fermily scoops an elimighty 95% in this menth a review pages, and we ever proud to bring you is complete playable level Billed as the Amign's manwe to Merio, The

Billed as the Amige's newwer to Merio, "The Addams Ferrity to a master planting to the planting Ferrity to a master platform some, will the player assuming the harrous role of Gomes. Addams Owner of the massive mension the game set in, Gomez's lamily - his wish Mortinas, his cranky Granry, slap-head Unicle Fester, and his cranky Granry, slap-head Unicle Fester, and his

children, Wednesdey and Puggsleyhave bean kidneped by an unscruplous property developer who has whisked them eway until Gomez hands over the deck to his house Obviously, Gomez is loathe to

hands over the decide to his house.
Obdicacy, Genze is leadile to
do so, and consequently he
must subjern his imbilling properly and attempt to rescue his
family members from their horn
bis lete, Out demo tenhurse an
entire wing of the five-stage
building—companing some forly

screens - end is set within the house is dank and creepy durgeons and lorture chambers. Somewhere within these winding calecombers young Puggaley but if Comez is to locate him, he will have to run the gauntied of the many subhuman creetures who in-hebit the lower regions.

Gomez is controlled using the jurystick falls parts), and can be made to nun, amp change plane, but on the made to nun, amp change election mid-lesgs, and duck. Starting all the entrance to the level, each stage sorolle sethet holizontally or in the outdomery eight dischona, knoping Gomez central elial thems: Ap progress is made through the dungeon, the societic legical seal register was chortous with the restly-lacken plate.

Additionally, the creature and obsta ole content is armiarly stepped up, and this paves the way to e final confinitation with the "Boss creature who is presiding over Puggaley Obviously, the odds are stacked agenst the

controlled the second of the rescue of the r

eventually, a cas park. "Garne Over, ethockwely If a not all box, though. Dobte derosa is the which can be used to aid Gornez a progress. The first as effecting ball which genits out here will lemporary invitalentiable, and is inducised by a spanking staff which follows in his waste and the accord in the Park-Coppler This unusual device is

ascard in the Pez-Capper into unappear owners as a Tommy Cooper-cryle has with Symp capabilities and can be found circling the celling in critatio rooms. If Gomes Liepau spill the corolling Fez, if attaches shall be his beat and allows from to the peach particularly incluy assas. So ye presentedly push large por the joyatick, Gomes's Reptipublic can be celedented, but it will eventually express, and Gomes will be back to using Shink's Pony (in walking). Also scattered froughout the houses is part of life





Loading Your Demo... To load you down, simply bear the fine and of the and it will not be built not b







Taventy-live Dollars award Gentez an extre leacth pol Guilletine - don't less your hand



Monster Mosth Annuagh most of the George is particularly and of the George is particularly and of the George is particularly and particularly and particularly and particular and particularly george is particularly and particularly and particular and particularly and particular and particularly and particular particul

Family's vast wealth, and Gornez can trade in any collected money for much-needed health points Shown as Dellar regns, on collecting twenty-five of these. Center is retired.

these, Gomez is rewarded with an extre energy unit, whilst one hundred grants him with an extre life

The mission is over when Gomez has bounced the 'Boas creature to death and Puggstay is free You will then be given a passification of the compatible with the complete various of the game when it is released But, be warried, if

net It.







Recently-fired cannonholis can be used so heavy stopping stones

The unit to this stage - but not the and of the demo by any meanal Now let the game commence...

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...I can resist everything except temptation...

Oscar Wilde











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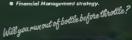
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Screen shots taken from Amiga version







# the ultimate amiga

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#### **@ A3000**

At the moment this is still the hotiest. A religa you can they, Repairing on an 1030 only with a "82 must copromosor this bully is first. ZMI of drap. RAM and a built-in flicken-four puts puid to any worries about graphical telling. Its email size means you can feejitmasny include it as a part of an feejitmasny include it as a part of an

#### ...

MONITOR
The Amiga's certain multisyna more

requirements, even this new productivity and super-bi-res modes. The idea of a multi-sync is that it, can 'Line in' to be frequency of your displays or that anhanced video modes, such as intertisce, will appear as atable as a

### SOUND ENHANCER

Draing Phojects accord enhancer is an associate trust if you care stood you'r exerc. Essentially, a drow what Commodors' is flore what Commodors' is flore mouted travel done Energons is known that to filter for mouting properly you have to be an the filter of the graphy you have to be made filter of the graphy. Or it sounds is it is being fighter graphy, or it sounds is it is being filtered through an old stook (the Social and Riege, and Knowle and Obel' syndown). The Sound Enhancer life and

gises and the bass to shift furniture just as nature intended.

#### **GRAPHICS TABLET**

The ability to draw is a great gill. The ability to draw using a mouse as you input device is a minute. That is why most ordes prefer to use a graphicability, and product large excellent as it comes with a roady made temptate for DPAint. Other systems are available to give puck contrail or a wider pud for more secondary.

#### **PRINTER**

are generally the same as those supported by any other computer. You could even drive a linetronic film processor direct from the Amiga given the radit sufficers.



#### **SCSI DRIVE**

The ability to connect SCSI units to the Artiga (vie a suitable interface the Artiga (vie a suitable interface) applied with most hard driven) theator that searce can bake networkage of the vest range of devices latkle) interfaced for After and PC mechines. Hard Driver, Optical Drivers, Tape Streemers and Sconness and a four there waiting for

#### **©** GRAPHICS Board

The Herfequin spitu on the PCe Super VSA mode. It is a 32-bit card capable of dispraying 24-bit images with energial bits left ower to provide synce for chromakeying and other offscts. There are many other 24-bit framestore, cards for the Arrigo but unfortunately there is no stendard as of yet.

#### **SAMPLER**

The Sunfiltre samplers haven't insets it to the UK yet. These promise 16-bit sampling capability. At present, the heat 8-bit sampler on the Amiga is. Audo Engineer, but Microbiatin AMAS combines an 8-bit sampler.

#### MUSIC

The Amiga may not yet be the massclaim? Effet choice for a station found. In the choice of a station found. but there is a single amount of professional software variables. The CSS Sequence 3.5 is generally impacted to be the best investible on early home compater. The feet of built-by butto ports may have held best this Amiga history button held best this Amiga with the companies of the companies of history button was no commonipless and change these days that it is no longer seem as a servicus obstation.

### PROGRAMMING LANGUAGES

Almost all popular available langrages are wallable on the Arrige, expecially 4 you use in Charlegoboard. Assimbly language in the for violate of cards programmers and by Attops is well represented here by Historic Despect. The Arrige is becoming bother linear as a develquir's resolvine because it's multi-training ability allows for exister obbogging.

#### **@ GRAPHICS**

Graphic applications are definitely the treatm of the Amiga. Not only is it possible to meate elumning arrivers, with packages like DParcs IV and TV Paint, it is also incredibly easy (as Roll Harris has proved on his shows)

#### @ DTP SYSTEMS

No major publishing house in this country is using th Amiga yet, but in North America several projects have been set up. The much-missed Amigo Times was produced entirely on the Amigo and Christop on the Amigo and Amigo and Pagesenter If from Gold Dais.

### MULTIMEDIA Given its ability to multitask and tha

estounding graphics and sound capabilities of siven a bog-elanderd Antiga, it containly ought to be first choice when it comes to multimedia Them are quite a number of good packages availe bis such as Antigativision and Showmaker.



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# NADDI

#### HARD DRIVES

Once you have a SCSI controller you can attach virtuelly env Hard Drive you like. Most drive manufacturers produce e SCSI system, including Quantum, who are generally regarded as the best Call Almethere Systems on 081 683 6418, SCSI devices elso include Optical Drives end other methods of mass storage. The IBM unit pictured here is evellable from Power computing, Unit 8, Rellon Road, Woburn Road, Industrial Estate Kempston, Bedford MK42 7PN (Tel. 0234 843388)

#### SAMPLERS

Apart form the SunRize, the best samplers ere The Audio Engineer end AMAS the latter of which incorporates a MIDI interface. This is particularly useful for musiciens with other MIDI equipment velocity-sensitive keyboards end synth modules. for example Suppliers Microdeal can be found on 0728 680020

#### 24-BIT CARDS

At the moment, the Harlequer Plus board is one of the basi 24-bit graphics card available on any system, let elone the Amiga Features like real-time gamma correction. 4-bit overlava, colour-cycling and 15-bit true colour make it the only choice for professionals. Creators, Amiga Centre Scotland have recently moved, and their new number is 089 587583 Other contenders include the GVP IV 24 (try contacting Omega Projects on 0925 763948) and of course, the considerably cheaper DCTV from Digital Creations

#### PRINTERS

Printers are fairly generic, elthough you may have trouble finding a driver to act as a go-between between I and your machine. At the high end of



### Star or e Citizen.

The Sharp Jx300 is the nices in full-colour A4 scenners with sustable softwere for the Amiga. If a smaller relative. The Jx100, is excellent it you won! need to scan enything larger than a colour print. Both are available from Sitos (081 309 1111). Similarly if you are looking for e black end

good bel, so give them a call on 081 5734444

Finally, at the really cheep and, you can't best a



while hand ecenner, they don't come eny better then the new model just released by Power, Call them on D234 843388 for more information.

#### DIGITISERS

Rombo a Vidrunit used to be the best grabber/digitiser at eny price. Now, however, there are mon contenders - especially in the ever-growing 24-bit range Mercam (9604 700466) produce some pretty impressive cerds and hot in from Germany is V-Lab, which promises to knock the 24-bit soots off everything currently available

#### **GRAPHICS TABLETS**

The Genius Tebiet from Detail offers 1000dpi resolution and comes complete with mouse replacement software for £129 99 - it certainly makes life a great deal easier. Detel also deal with other more bigarre methods of control Call Ihem on 0782 744703







# the ultimate.

#### DTP

There's still nothing to lop ProPage, which is now in it's third incarnation. Full ARexx support Compugraphic and Adobe font handling. advanced levout features and unrivalled display options make this package the professional's

On the cheaper side of things. Pagesetter II is worth looking at Don't be faciled into plumping for the old and putdeted 1.4 Version, as V iii is a serious package which can handle almost all of the features evaluable in ProPage with the notable exception of colour output. Finelty, a PD package is promised soon from 17-Bit

#### SPREADSHEETS

Gold Disk have this area sewn up with their amazing Professional Calc package. Not only does at handle over 130 functions but it elso Includes Arexx support end a hotink to PPage Gold Disk noftware is available from many out lets but try Precision Distribution (081 5433500) Also worth a mention is Finance Manager 2. It's nol exactly a Spreedsheet, but a useful personal account manager nevertheless. Try Microdeal



#### GRAPHICS

DPaint IV from Electronic Arts is the benchmerk for all Amige ort packages. Most compiletion pecks carry en older version, but IV can handle HAM images and is also capable of performing tricks that other packages can only dream of as a result, the competition for DPaint is scarce Electronic Arts are on 0753 549442

#### MUSIC

KCS Sequencer 3 5 is quite simply the best you can get. Although a lot of MIDI software has been released for the ST (which features more heavily in studios than the Amige), this pack aged has been judged by experts to be better than env of its competition KCS = £279 from Zone Distribution, a professional organisation which caters exclusively to musiciens. They may elso be able to help you chose a system to sull your needs. Call 081 766 6564

# amiga THE EARLY

Everyone must know by now that Commodore is the name behind the Amiga, but it wasn't always that way. We chart the history of the world's greatest home computer from when it was just a twinkle on it's designer's monitor to the present day.



#### AMERICAN PIE...

The Amiga started life in true American Dream style Back in 1982, a group of designers left Atari and headed west in Silicon Valley. Pertially funded by independent investors, they started up a business called Hi-Torro, whose aim was apparently to break new ground in joystick manufacture Overtaken by the peravola that rules the computer industry, whilst the rast of the compenses thought they were fidding with microswitches secretly they were making their plans for a new, amazingly ariveness computer

Their plans involved a highly innovative machine, code-named Lorraine Jey Miner (who had helped develop the Atari 800) and the rest of the learn planned to develop the ultimate, no compromise sames console. Unfortunately, as the project neared completion. It looked like the bottom was dropping out of the home gernes market. The future for all pames machines looked black, never mind one that was still in production. Investors started getting the litters and builting out before what seemed to be inevitable happened Silicon Vallay had woken up to the crash and burn syndrome and few people were betting their money on notoriously unreliable techno-junkies who promised come a long way from the original A1001 (selow), although son would argue that if hann't progressed enough. However it's nice that the ABOS can be loought with a hard drive already installed.



# YEARS

a whole new concept in herdware

At this time, the protatype was nearly finished. The hardware was roudy to roll bin, indicrutately, the wonder methics all flieds on Operating System Hi-Torro didn't notion enyone would buy they accept the protection of the protection of the they scaped logother whetever spare can they ould and tried to find acceptor who puck knock ould and tried to find acceptor who puck knock out something. In the and they got more then they because of the parameter of the parameter of the protection of protectio

The lob aventually wont to a British from, Metacomor Tim King and his team based the prototype ArmapaDOS on a title known mell-testing openring system 'ripos, onglinely lesined for maintiment systems. This viscously effort medit be maintiment systems. This viscously effort medit be Areign to the fall the mell-testing here computer and probably saved the entire lutter of the Armaps. If it is businessly and his document with Armaps OS, it is businessly with and the on now provided with the means to become a fool for more serviced supportance.

#### THE FIRST GLIMPSE

Armsa as this company was now called, displayed their first mechanic at the Comminist Electronics Stown in Janning 1984 In those degree the needed water just a collection of boards crudaly wreat logistims and the Kickstart ROM hand to be loaded in off ficipy. If was undesirably a prototype, but proceed setting eithing very literated. The backets water interested enough to just no just prototype and interested enough to just no just prototype and interested enough to just no just prototype.

Soon the collection of boards became custom chips – Paula, Agrics and Danisa, collectively called the PAD, But by now the sharks were circing. There was only one way to go – public. A

share offer was set in with an opening price of \$2. One interested perty was lack? Tramed, leachly, arrived at Asan after defecting from Commodore (and fearly of them with some unprilessent fac produlems). Thinking he tead Amige over a barral, he offered around \$4 80. Amige rever saturing to get a bit despirate so they decided to accept the offer. This got Tramite thicking, hierer one to miss a begain he deopped his offer agrin. Then a very strange thing happened.

In some bitarre Twitight Zone experience, Commodore did someibling rether stellingert. Whether their motives were occurilly based on some emizioning foresight or just a desire to get back at their former MD will probably never be known, but at the eleventhy hour they stepped in and donbied the ongrad offer to \$4 per share.

If was a price that conidn't be smiffed at but, ansarpily, it was Amige added an extre 25 contents to price Commodors were a little surprised at this but, after a bit of thinking they decided to cough up.

#### COMMODORE TAKE CHARGE

The first thing they did was spend even more money, paying off outstanding debts and closing down the joystick part of Amiga (which was enly a cover operation anyway end hadn't really contributed much to the future of computing – nnless

you faink theil a surfloand controller in any great contribution to the future of mankindl, in find, the loops et Commodore decided to sel np a whole new department, Commodore-Amiga, to deal with all future development of the product. When the A1000 was when the A1000 was

Committed in Committee and Com

early days, initially, the A1000 was left behind in the 16-bit, surge, Alari come no with the ST which, mobelingably in these anlightened times, was considered to be the fallure of home computers. The A1000, some cruelly alloded, was natural after 5 pricts tag-— a helty grand it also had an undeserved requistion of baring difficult to use Many developers after sway, though Marchallusions and Electronic Arts.

jamed on-board feety spilotly.

The failure of the Amiga again looked in jeopardy. The market claimed the price was bot high, Commodore responded that literatively find good was worth purjing for. Then, in 1986, an entry-level machine was introduced – the ASOB. Although calansibly a smaller version of the A1000, lite ASOB had been greatly improved. The drauley hed uniquingous an assalve overhead and new expansion.

possibilities had been created. The ASGO pull the Arriga on the map.

Sull more expensive (but only just) than the ST, the ASGO drew on the out following that his ASGO had ball up. Silcos software house that deen reluctant to come up with the goods, the dedicated users had ballen it like there own transit to demostrate the power of their meethine — Arrige PD was both. This model people reside like), in the end, the

bed was worth paying that little bit exists for The ASOO was shortly followed by the A2000, a much more expandable and professionally prientated machine that Commodore railiser looped would capture some niche market, as Apple had done with DTP. It did eath on to a degree in the world of Desktop Victor but not really enough to make the world take potice.

#### A DECADE OF LAUNCHES In May 1990, after months of secrecy and densel.

the ASOO was innoted. This sharps session of the beautiful processor from the procurate for commondors in fact, they alread the materials of common and the day before collicially innoted by at 41,000 are. The new machine was sell to compare the world, building on DTV and craphang by the factor 80330 processor and reducially processor and reducially processor and reducially processor and reducially processor and account to the day to the state of the state

September 1900 saw the arrived in the UK of the 3000X, & 19th compatible machine which finally enabled Commoders to claim the A3000 was egraphics workstation. Also on dispty was: the A3000X, is based system Doesting even more asparance ribbs and the power feeded to sure ambient. You A1500 also papped up, but if was just makes the A300 with page 2000 Examility, it is a 2000 without a band drive but with an extra floopy. No marks, for sinovation.

Where was all the research and devalopment

going? On the CDTV (Commodore Dynamic Total Vision), Commodore ver racing abased with all they could muster to bring out a CD-based home entertainment/botnestion system before the CD-I congloments got their act logistim. The Buty was shown a long time before it was sold. A lot of extra features were added to what was besidely just an Arrigin (although Commodore were initially rather loadly to point filths out.)

nother looker to point the coult.

Lenf-Cristines, relear of ASOUs horsed.

Lenf-Cristines, relear of ASOUs horsed.

Lenf-Cristines, relear of ASOUs horsed said.

Workbordt 2.8 hist make it to the owner and of the market and braining the Entersood Chip Bell with it.

This new screen modes and preinstated 15ths Chip.

RAM made the machite very popties of although the ASOUs reliance in workfort acree was started and the company of its pressor of Preinsaces) wouldn't out on the ories machine. To be fair, the won end.

Commodator's families and all the programs which didn't

new reachine. To be fair, I his was not Commodore's fanit – all the programs which didn't work were noing rilegal instructions and direct hite on the ROM (which had obviously changed)

Since then, there has been much confroverity over the ficialed OD ROM drive, much of it own the harmer – ASTO or ABDD? Nomencialure entire, the man, proudly a monomodin of beit religazions, as specificacijanty failed to appear. Commodore blame tachnicol protherene, computability entanget them. For e start, all the moment it does not have e thistuder-boost to shared of the control of the contro

through-port, so herd drive users ere out of luck Onr history cetches np with the present day at ECTS, where CBM launched the A600 This is a restyled ASODPlus featuring ECS and 1Mb of Chip Ram, but also has a buill in modulator and sports a smarl card slot. Some models will be available with internal hard drives, which in no way makes up for the lack of an expansion port - that's right, there may be a bit of a competibility problem with the A690 there. Also amonost the 'enhancements' are a redesigned trapdoor slot. How Commodore can call this innovative is a mystery, especially since the ASSO easems to be nothing more than a slightly modified CDTV motherboard in a restyled A500 box with a nice £399 price tag slapped on the front. This lack of advance can only mean that once again R&D are working on something also But what...



Head and shouldest of the ASSS Although sporting a cartridge birt, if seems to be missing at expension port—ah dear.



# Spiritus ent

Whilst the outside cases of successive Amigas have undergone redesigns, the insides have remained more or less the same until recently. Here is our guide to the bits that matter...

# INSIDE O

## 1 AGNUS

This chip's name is derived from list function as an address generator. Provided with a 28 MHz clock, the chip provides all the system clocks for the of the Amps. It also controls the 25 DMA channels which allow the other custom chips to access 'oraphics or chip memory white the main CPU

sin't looking.

Agrous is primage best known as the bosine of the bilities (a nunsiom)ead data mover which provides hardware lines life and ordivare spriles; and the copper. The copper is a copprovision which developes a display control program every 25th of a second, elikowing pailines and concern mades to be changed dynamically. The copper is the secret helphild interface made.

The original 8370 Agnus his now been updated twice, first to the 83724 for fatter Agnus) and tissue the 83724 for fatter Agnus) and tissue the 83728 which can handle up to 2846 of Chip RAM. The Agnus is elvelys sayl to recognition because (at least so far) at its the only PLC chip on the mollimboard (their lumn) sayare one).

## 2 PAULA

All of the America's sound couplabilities are increased in bits will the 44-legacy place of belief it values of 6bits will be 44-legacy place of belief it values of 6bits will be 44-legacy of 6-bits will be 44-legacy of 6

## 3 DENISE

Decise is short for Display Enable (they were obviously a bit dystecin at Hi Torro) which neatly sums up what this chip does. All the screen modes are created and organised by this chip as and the hard-

were spriles. The original Denise was numbered 8362 bits the latest version on this A3000 and lates models is the 8373. The main difference is that a lew more display modes are available inclinding super hi-ries and productivity.

#### 4 GARY

Gary is a jumped up control chip it is his job to hendie the bes control end all the address decoding (which is why on some early RAM upgrades this chip had to be replaced or eltered). Amonget the diverse



tasks this chip must perform are controlling the Boppy drive and providing the Hisshing grey ratiours on bool-up. The Sary is numbered 5719 and has stayed constant throughout the machine's development.

#### 5 68000

The referencessor is what makes it all happen. This Motoroia-designed chip is looking a bit long in the looth these days, but it and its descendants are like heart of the

Amigo range. The Motorola 68k series is also used in the Macintosh limitly of computers.

For techno-irraits I he 68000 tass 23 address lines (so you can't address and memory locations). 16 data lines and over 1000 estructions. The original bard (come ten years sop) was to produce the most flexible system por sible with the technology evaluable pedigin by the long-edity lite ratio obviamity has, they certainly sucpeeded in them mission.



#### 6 CLA

The Complex Interface Adaptors control all communication with the outside world via the parallel and senal ports. They even control communication to the key-

flash the LED.

There are two of these chips, one to handle God data and one for even. They are also very delicate. If you botch a ponter connection a furnity smell will tell you that these chips need to be replaced.

#### 7 ROM

The Armga 500 Flus ROM may not look a lot different from its predecassor, but it is. For a start, the new ROM is 512k instead of 256k. This has caused some problems with acceleration cards which copied the ROM into Fast RAM to speed up execution.

What is in the new ROM to make it so much bigger? Well, most of it is taken up with better housekeeping routher and support to the redesigned custom chips (ECS or Enhanced Chip Set)

#### 8 CHIP RAM

The Chip memory installed on board the ASIOPIus (all 1Mb of it) can be accessed directly by all the DMA chips by natalling more memory in the trapdom, the 500 Plus can have a total of 2Mb of Chip RAM. The 5000C can address a further 8Mb bringing by his local system size to 10Mb Not bad for a home computer.

#### 9 KEYBOARD INTERFACE The keyboard interface is more middligent than you

might think. It even has a special 555 timer chip specifically to thath the LED on and off all the corect rate. Further desponstors can be obtained via the Caps Look key. A coded message will be sent via thes light at there is a hardware error preventing the system from initiating.

#### 10 CLOCK

Not much of a feature, but the A500 didn't have one The small blue thing is a NiCad battery which will keep the time even when power is disconnected. Despite scare stories, the memory of the clock is too small to permit a virus to live there.

#### 11 EXPANSION PORT

An extension of the main CPU bus allowing extra peripherals to be connected, These are usually hard drives but could theoretically include devices like scanners or accelerators. The latest Amiga, the A600, doesn't have one

# CDTV - A future?

There are problems with any new technology. Not so much the problems of design, or the increasing tolerance and accuracy to which things must be manufactured—but also the problems of marketing. The problems faced by ORROW should not have been so great as CDTV sales avoid have yes believe. It was the right tack to take.

In their infancy, Compact Discs were first conceived for eleving large amounts of data, such as would be needed by the composters of the future. Computer manufactures took a lock at it, and it was too likelihed and for lock appeals and work and appeals and work away again. Philips developed the idea along a different appreach. Having successfully sold the idea of south Compact Discs as the assistantial part of the idea of south of compact places are the assistantial part of the idea of south of compact places are in a sectionally and the idea of south of compact places are in a section and applications are in a section and a chance of the idea of

With entire West German factories charming out nothing more than Pink Floyd's Dark Side of the Moon, manufacturing prices plummeted to around twice the price of suplicating a Septy cide. Dof we see the price of insuic Cot ga down? No, in spits of a fairly low inflation rate they have actually gone up. Killings are below made.

But not by Commedore. The money is the hi-tech home entertainment manical is in the product, not the delivery system. A CD player is a CD player. Nobody mally expects one to be any better er worse then another—in tect that's the whole point of them. That's why CD manufacturers tall over each other to invent new features and gimmicks to make their system seem better.

So why ama't softwere houses falling over each other to produce sitted? Wall, a lot have produced at least one life, montly genera. It's ownelly set tills, life a very well-known gener that exceptions is going to buy, or at least can become part of some forms bundle or cellection. The obvious reason why days are not going all out is because it looks illu. Commotions area't going to set immers. One of the reasons is coverage, which into any high sheet store like Corry's, Discon, or Consect. Where are the COTP's! That there, included, they are all hotdied togother in bends down at Ruddo Rentals or, if you're buckly, of the local computer store. The second reason is a lack of commit-

It's not thet people doubt that those at Commodors are willing to de almost anything to fing CDTYs. It's just they don't recious they'll be able to. The excellent find that recipitive to new Ideas at the moment (and who not biame it during a four part billip in the seconomy) – members the scalatille clish? Oh yeas, It's really popular now, but remember the days when they were giving them away away day in the gotter press. Som, if Commodors cattradighting aways CDTY's than people will start producing more disce. Unfortunately, Commodors can that as hape is one list that to big lockers the findenty.

So what Is the future for CDTY' If none are sold mones will produce any contraver and none will want to be you. Wait, the service could be CDTY's biguest rival CD-I. What happened in the music industry? All the record compaales and fectivelying companies got loopsiter and made dash. Obey, so the same yor is the similar of the industry is firsting, it wouldn't be beyond the same way as it has become Protect Occamentalise.

By now, Commodore should realise that they can't go it alone, to fact, judging by sale of CDTV and CD4 they may have a teach that going it together. A CD4 option for that CDTV would give Commedore the edge — none is a

This may explain Commodore's reversal of their early reluctance to admit that under the black cosing beets a heart that's pure Amiga.

So, Commodore boffins are already secretly drawing up their plans for world domination in the shape of the Amiga 4000. But what shape will such a machine take?

# TOWAR

#### **NEW GROUND**

The secret is, of course, that Commodore are working on a completely new Armga. Where exactly in the grand scheme of things it will be placed remains open to question. It's unlikely that the machine will be too far ahead of the A3000, certainly in terms of cost. Commodore will be wanting (or at least, should be wanting) to consolidate the regulation of the Armos as a serious tool In the ensus where it has already made an impression on it should also allow greater compatibility for the peripherals of the future, enabling it to bicome a more effective multimedia workstation. But what specific things should we look out.

#### PRETTY PICTURES

It would be nice if the the next ganeration of Arragas came with 24-bit graphics as standard. This would enormously improve their regulation emongst DTV enthusisets, especially if the design was based around or Icensed from Arriga Centre Scotland's Hartequir board Unfortunately, this would be a bit expensive. So what is going to be done shoull it?

As we understand it, Commodore approached Diorizal Cressions, the makers of DCTV, to obtain a licence DCTV is a very cunning system that nees PAL encoding to fudge a 24-bit display Despite the seeminaly backstreet electronics, the results are astounding Unfortunately, talks over the systern, which has a retail price of £599, broke down. Commodore then moved on to do a deal with Black Belt, the makers of Ham-E. This slightly cheaper system (£299) is capable of displaying 282,000 colours on screen at once including 24-bit images rendered with programs like Sculpt or digitissed with Digivisiw or V-lab

#### SOUNDING OUT

In the very pear fabre, we will see a production line Amga with 12-bit or 16-bit aound. Third party boards are stready available in the States, and it or only a matter of time before they make their way to these shores. What does this mean to the average Amiga user? Well, musicians will benefit creatly from the ability to sample at CD quality directly to the Armga rather then via a £1000 stand-alone unit as at present. They would then also have the facility to edit the samples at full 16-bit depth which would give a greater greative input to the process. and also allowing many effects which are not pos-

sible without a creal deal of expensive hardware. if the board were to incinde a DSP (Digital Sound Processor), its functionality would be greetly enhanced in essence, the DSP is a dedcated processor (rather like the Blitter only dedigated to the sound hardware) which would allow real-time sampling direct to hard disk. This would be e creal advance. At the moment record companies are using similar technology on the Mac to master albams directly to disk. The hard disk can then be plugged in at the CD manufacturing niant and all the disks mastered digitally without eny pasty analogue noise greeping into the pro-

Also, the prospect of doing it yourself would no longer require a lot of hardware at home. CD companies will manufacture in lots of 1000 at £1 per disk. If direct disk mastering were possible for the Arriga, even ameleur musicians could afford their own CD run.

#### DISK US

The one thing that Commodore would be foolish not to include would be a high density drive Romour has it that a late batch of A3000s were released with a high density mechanism in the States earlier this year. With such a device and the necessary workbench support Amics users could at last access PC and possibly even Mac disks directly from AmignDOS, without having to fiddle around with external drives, CLI utilities or complex and narekable mountiest hacks

It would come as a great relief to professional graphics users whose entire existence is made in misery by firrited disk space and conversion difficulties. With the amount of Information being processed by all the heroware we have already memboned, a disk capacity of at least 1.4 Mh would be a necessity

#### WHATEVER WILL BE ...

It would be histoni for Commodore to take any notice of what the industry or the users want or need. We can only hope that our aspirations coincide with whatever bizarre marketing opportunity they believe they can create the Amiga is an emazing machine. Some people would say that Commodore gave life to the Arriga, others that since the A500 was launched they have done little but hold it up. Yes, Commodore gave the world the Amiga, but those of us with longer nemonis also recall the Plus 4, the C16 and the C128. We can but hope end wait and see.

#### OP URV

Having polled various industry figures as well as dedicated users we have come up with this top ten list of features they would like to see in a new Amiga

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- Feater Blitter chip
- More capacity for Chip memory
- Better design to allow easier chip upgredes New RISC erchitecture
- 8 letegral Midi ports 10 letegral SCSI II port

in of these demands may be mad or impossible, but that's what the people seem to want.

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They in the children of the size, Weig to be a part and a sine, and first 2 Done's form one suppressed of the children of the

DOMARK

Owners to State St

ENGEN





Welcome to Screen Scene, Our reviews ere timed to coincide with the release dates of the games themselves, so you won't

# **SCREEN** SCENE

ON SIDE...

'Ere We Go

John Barnes

75 Fire And ice







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# IMPRESSIONS

**CU** Amiga casts its eye over the wealth of games destined to hit your Amiga very 5000...



#### Mirage

So You Want An Evolution...

THE GAMEPLAY: Man's evolution from an Ape to present day Homo Sapien has been the subject of counties, debeles and arguments to release their own view of how we stopped dragging our hands along evolved from Lemmings rather than orimates! The first of a Inloov. a party of six Neanderthals, who are just aching to expand their minds and

each of the paratives in turn, with the Fixeys selecting each character sa and when they are needed PLUS POINTS: The most striking lealure about Humans are the actual Human sortes Although the game-

play is similar - but more advanced -Than Lemminas, the characters are portrayed as massive spritos, and capabilities. Starting with the basic learn the use of assorted objects. abates of climbing, walking, and crethey roll on wheels (and over each others' loss), climb up the backs of sting a human lower(l), then friendly Dimosaurs end, well, fall over progression through the game s 120 levels sees them acqurring use of a lot Howaver, the gentle learning speers, the wheel, and eventually curve is also ideally suited for the

fire. In addition as the player learns

the people. The joystick controls

sosneno, and promo logical thinking that svanasis' suicidal l

cast spells and and Krigs to proanise BEHIND THE SCENES: Imagaine Denian, are the coding Darwins behind Humans, and they intend it to be the first of a Inloov of games. From these humble beginnings. The next two games see

the rapidly-avolving race entening 'The Age Of Chivelry' and 'Space' but these are severel months behind m devalopment Production started five months ago with Imagiliac placing rdeas together on paper, coding started a line days tale.

FIRST IMPRESSIONS: Whrist the opings-on in Humans aren't exectly breath-takingly fast (because the

covery per level - still, I suppose that's how evolution works), one little mistake will sel mankind back hundreds of years. It's definitely a lun little number, with planty of puzzles throughout its many colourful and delated levels, but the variety could be a problem. Admittedly, in the version we saw, not all the leafures were running, but it imagited can pram in ell their appd rdess. Humans will be a stunning debut for Miraga

## Thalamus

The lamus leave the Seast's shedow THE GAMEPLAY. The quest for the Guiding Light has plarmed many adver-Light's powers but before you can do so,

deemed to be a deeper, more puzzle-orl



who was out, there's always room for graphics like these. The occasional puzzle to solve in Master the puzzles take precedence over the atcade element, with the game's beat BEHIND THE SCENES: Beast Master's concept has grown from an original idea from

PLUS POINTS: It's obvious that Snest Master Is head-

development team. WJS In the for Psygnosis but his role on Afester is imided to thet of proled manager, with newcorter

the game using Shases, whilst

# **COOL CROCK TWINS**





**Arcada Masters** oc Around The Clock GAMEPLAY: Funk and Punk

have fallen for the same cut, the beautiful crockette Days them, she does whal any mite - several miles, in last in an elternot to scaps the problem With you taking the role al one of them, the amorous emoblbiani rows obase over 60 plet form levels and six worlds to procleim their love Each (evel is filled with coloured biocks

that have to be it. The

crocks have the power to defy grawly and by walking around the four sides of the screen and platform's sur faces they can jump off, smack into, and duminate, the

anch block pos PLUS POINTS Each level is patrolled

by a quote of baddes Thuy begin with four and can go up to about fifteen on screen at once. These cheracters edd en elemeni ol excitement to the game, as every time you spin off a sur-

likey throw up a letter that gives you is different power F freezes the screen. S tottle these blocks at once, N neu-Tralises special blocks and so on Squash iill the sprites on the level and you get an extra life. The graphace don't change much except on the enemy sprites which life according to the world you re in. They range

> ointes end larmen Other lealures are blocks, boulders, snow bells and doors that obstruct access to the lights Passing through question marks will Throw you off in ran dom directions whilst entows will send you in the indicated direction and

BEHIND THE SCENES: The Inhal came idea came from French programmes Report Valasso. The project has taken 12 months to develop and should see a release within the next month. The bigges problem Benoil faced concerned the Interaction of the graphics due to the spand at which the two crocks spiral

FIRST IMPRESSIONS: Gool Crock Twos Is the first official Isunch product for Enterteinment International's Arcade Mesters label end it certainly remains faithful to the company's tale. The game is a line eronde expensince in every respect. Nice touches, such as farm viird an mels and birds that sweep ecross the screen bearing humorous messages, all add to the game s overall

feel of quality

# **MAGIC BOY**

**Arcade Masters** Emelet is the nine Surperer's Ap

CAMEPLAY: Take the Minhey means scane from Walt Disper's Fantusia and mix it with some cartone-style campnier graphics and yen've got Mapic Bay. Hewlet has entidentally let loose oil the Seinterers pets so, armed with his mostic wand and a small bay, he muct nother them no before the aspectan's return, Lunkly, by osine the wand, he can stun the creatures and threw thme into his han Sowever, the effent doorn't last long and if he decse's

deposit them into their pens within 18 seconds than'll treat free. There are Bil levels with

alabit worlds, each possession a different theme. Every monster on every surpose must be cause and nextant with them means restant deeth. PLUS POINTS: Betail on all the sorites is excellent, when Hewlet has collected a

menster and pet it in his sanh you can see the beest bloking and struggling to get tree. The Mage's custie is filled with platforms incorporating springs, disappearing blocks, conveyor helts and pich-ups. The magic wand is pretty wimpy to Begin with, but you can get more powerful models. The calcum and renditioning at the snakes, birds, plant mounitoes, mint diseasors and pleaborts are examisity and unimetion of Hawlet in Inli at character SEHISO THE SCENES: John Dale is headling the node for Arcade Musters. He can

rently progrems in his spare time as he works in the computer Law department of Warwink Gelversity. Set nenteet with jest handling the Amiga peds. John's also creeting the Atari and Famicom versions simultaneously! At the moment them's e situal prekime with serity detection, but that will be ironed set as soon as John gots unother day off work!

FIRST IMPRESSIONS: With a large childline sorite Manic Boy is bet not the Sainbow Aslands in looks and game-play. However, a major asset in its levent in its sovel 'teel'. When

Sewiet picks no a measter they'll always religenish samothing A plane of Iruit for leanns paints, letters to spell a word for an ertra life raintions in skip levels or stars for gredits. These little tounhes, plus the charm all the name

and a sileht auzzle als meet, maksa it look o welcome saliitian to the nutesy genre.

the graphics are produced using Diffeint by Godfather meastro. Pela Lyon. The disvelopment period has been 'pretty problematic as Leo struggled to get the many puzzles to run logically, but apparently they have besten this problem, and the game FIRST IMPRESSIONS: With Shadow Of The Beast and its sequel heavily on

DE LIGHTON HOUSE CONTROL III'S Pate Lyon'S



# ERE WEG

With the European chromphomologicular around the owner, the Perchaliar pain has some again district to liven up, with nearly a cosen in early Cody premise on the way. The Lords is with MECC 60 for 100 feet of 100 feet

# SENSIBLE SOCCER

During the tall-end of Mega-Lo-Manuf's development, Sensible tude, John Hare end Drive Yeller, started toying with the size of a "Nick Off Beater". Stiming down with colors of Anno's classic, Speedbalf II, and their 8-bit increasion of Micropross Soccer, they noted the best aspects of each, and what filely would like from a Footy garm. After a few mock-ups, Sensible Soccer was born. Featuring todgly, but well animeted optriss.

Sense Socces is a definite game of two halves— Footbash, half madeop humous The pitch is viewed from shows, and the lads have kept everything to e minimum size, with the pitch occupy more of the sorean than Ancro's game. We wanted to slow the playes to pten ahead more," says.



Errrrr... quite extraordinary... with the England team well on their way towards the next World Cup and the European Championships soon to start, yet another wave of Football-related computer games have started to appear... errr.... over to you Steve Merrett for a complete commentary...

Sensible's Chris Yetes, 'and making the emount of pitch on-screen at any one time larger than in past games seemed the logical thing to do." Another area they wanted to explore was complete control lability over your squad. Rather than scurrying all over the pitch, your pleyers ere allocated specific 'zones' on the pitch - on erea for a delander and another for e winger, for example in eddition, whist there were very lew moves not already Implemented in past kokerpunds, they fell that they should be made more easy to use "We ve included all the usual banane shots, bicycle locks. and sliding tackies." Chris eleborates, "but we've tried to make sure that the players react quicker and more instinctively than in Kick Off That way, in the heat of the ection, you'll be able to lunge and give at the ball with a number of players, and they won't head off to do their own thing or slide for no apparent reason,

All the usual ruse on present, with look, defentive web and the like, but on thing no past footing the same has a thempted less with Servel Second's count department. The orient of our shan like piece way. Online onlines, hard in the internetional methods between hallen and Sparish less, them will be fireworks and wholes coming tome for credit Servel between the land in many options will be reventible Second red in many options will be reventible former or land. Servel be storing at time for the will be recently former or credit Second servel and the recent of the servel between a self-revene next.

Yes, a seems like the Sanable lads have done it ogain. First they revived the Foot genre on the C64 with Microproce Society, and they could offer like the See and the supervised the See and the supervised come of Afets and it is a lump of genra, and firsty could be as sick as a parrol if bey don't make the Ellis. Another extremely lemous link, others: Travor – your hair looks mos and custy by the way new parm?

#### EUROPEAN CHAMPIONSHIP 1992

Fibre
The next battling for promotion and hoping to part
Joe Public from a twenty-six quid transfer fee is
from Ellin. Last year, the Weissland beset dorsprays
accrete a messive own goal with their other Tecrno
World Cup itemes but they hope to bounce back
with hits conversion of
Tecrnol's World Cup 90
coin up – which now goes
under the updated name



Developed on the PC using the eco-op's graphics and course sode, Size are claiming that European Champsonehip 1992 is identical to its arcade persent.

Using the Topico cities of a copyright source code. Eller hoeset that if she the beschedness of all Football garners "Storing worth related, bearing in some the second of competition Audiocologisal Consistence of the control of th

If her to be soid, though, that the original conowers a third shart of the action is lettle lorand, but Ettle emplementing to righten up any locae enters, and report much benedich humour with the lister of streakness and players running lind postposits. If I Ettle leve up to these portesses, they may here a classrea for glory, but with the electromorticated World Cup-still society retermetized little may her with the misses of acceptance to drive the lettle back. Let're got Darks to the silvicia and Eton Westle.







shoom here in all his slightless plory - his sints will I'll the space in the right ARSENAL

## **Thalamus**

(Smarm) Hello, and welcome to 'The Match' (sexy gnn to

nearby Denis Law end his back to the mooning lens in beckground). On today's The Melch, we've got goals galore from all the first division matches (creep, oil), which in other words means that Liverpool are the main feature whilst we butter up all you QPR and Everton fams with the odd clip from the geme you stayed in all day to watch (glease, ogze) Anyway (amiles to camera), next up today we have Arsenal who have disched George Graham and are currently being managed by Thelemus and groomed for a potential summer

Converting the likes of Ian Wright, Peut Merson, and Tony Adams (with or without hie prison outfa) into pixels are relative newcomers, Cyraus Software, and their attempts to bring 'The Gooners' to the Amiga have taken three months so lar. As il currently stands, the game is a mixture of arcade and managenel styles, with the would-be George Graham picking and training his team, and then - hopefully - quiding them to victory during the ercade sections. At the time of writing, only the managenal sections are up and running, but these are still looking very impressive. Dicalised pictures play an important part in the proceedings, with each player shown to the left of the screen, and their relevant stats alongside this. It's early days as to whether Arseval will be a league topper, but

Thalemus confidently think that it will blow eway past licensed games. Now over to Sleve Merrett. who has been lalking to Liverpool-based Rece ebout their very improcsive-looking kicksbout.

#### STRIKER

- Rege

and the action is sted field We

most of the footy патия

Race are e new face on the software scene, but their regulation has elready been forced. Race is, In fact, the new label educted by ex-Dosan developers, Special FX, who have at long last made the breek to become a stand-slone publisher. Paul Finnegan, head boncho of Regn, is quietly confideni about the move, and thee line release.

Striker, is nearing completion. Pleyad over a forced 3D pitch, with the pitch came that International 3D Soccer and I Play 3D Soccer lested et. Usino small, but well-enimeted sontes, the terms is a fast-paced Soccur sim which could guille easily knock Kick Off from its perch. It's difficult explaining whell makes Striker so Impressive, but the mein reason for its success is that it plays so



sround," opens Finnegan, 'and obviously we looked of Kick Off II the most. The finel result we worled was one where we could make it look very different, but retein the pace and sheer number of moves of the Anap game \* And, to be honest they've certainly succeeded. As the players run. around the pilot, the screen pans behind the ourrently selected player, and vie the loystick all the expected movee are there - and more. Divino headers lobs, Iree kicks and comers ere ell eveil able, and extremely easy to use "We've Iried to keep if as simple as possible," Finnegan eleborates. The moves are all accessed year different moves of the stick and the firebutton, but



LOAO OF OLO BALLS Can we ever forgive Ance? There we were ell enjoying the likes of Microprose Soccer and the countless other Footy games which were hitting the scene, when eleng they come with their blend-looking geme. When Anco first took Kick Off eround to all the megazines, it was trented to cursory glences and was ralegated to 'One-Page Review' Heeven. However, ectuelly pleying the geme opened up o completely different cen of worms. Kick Off evolded the 'Velcre Beat' syndrems of Microgress Soccer and Activision's shremal Fighting Soccer, and also bere a resemhlance to the real spart! For such a popular computer game theme, the age-old sport of kicking a leather hiadder at hot air around had been serely neglected, with would-he Keyin Keesane and Maicolm McDonalda limited to the managerial espects, rather than 'en-the-pHch' ection

One of the first (and werst), was Grandelam's Pater Beardsley's Succer. Then then-Liverpool striker was one of the first players to enderse a game, and he obviously never eaw it before it wee released! Aithough greehically, it was fine with large car towny sprites, eli the playere looked like mop-top Pete, meking the game look like e Beatles convention! And if that wesn't had enough, it were complate welk-ever, too. Hose springs ntersel, though, and Footy fens were pinning their hoses on The Electronic Peacil Company's conversion at Sensible's 8-bH classic, Micrograss Seccer. Also, though, the conversion comehow lost oil the cherm of the C64 original, clong with the fest-secon pleyehility, too.

Mere weeks eller Microprose's non-lessuer, though, come a pathatic-looking gema from Ango, Kick Off used minute players set suginal a such which, in relation to the teams, must have been at least two miles long. Hewever, it had one thing that the othere lacked; complete central ever ell the shets end passee. Hone of this 'veicro boot'. where the ball instantly sticks to your player's feet - in Kick Off, you dribbled preparly, end very herd it wee to mester, too. Nevertheless, it was the best Fosty game ever, end consequently wen a myried of good reviewe end sold thousands of copies, releing Ance from their previous elecurity of Scramble and Donkey Kong clones.

Following this, licences aslore were relessed with Liversoot, England (the less said ebeut that the betterl), and good old Oezza making an appearance, along with verial tions on the thems, including Red Ret's brove ettempt at using a 30 perspective to depict the action - unfortunately, the game was rather alow and Microprosa had one of their rere duffere on their hends. Agein, Ance came to rescue with the new-legendery Kick Off it which now boosted distensive wells, touls, and ellertouch, and which again lelf the rest streggling behind. Until now, perhaps...

# IT'S TOUGH AT THE TOP... SOFTWARE 2000's

Software 2000's The Manager is the definitive football management simulation featuring all the clubs in the 1991-1992 top 3 league divisions. The objective of the game is to take your favourite team to the top of the first division os well as trying your skills in Eurapean chompianships.

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attendance - earn extra revenue by setting up a sponsorship deal - wheel and deal on the transfer market to improve your learn.

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SOFTWARE 2000





MANAGER

# **BUT IT'S TOUGHER AT THE BOTTOM**

NEED HELP? CALL THE



# 'ERE WE GO...

cross comes across, you can send e plever lung Graphically, Striker is all the Kick Off school of minimalist sontex. However, whilst they are larger than those of Anco's game, they are also considerably better to look at in eddition the control system may appeal to anyone who never got the heng of Anco's game's dribbling system. We've gone for a loose varient of the "veicro boot" syslem," says Paul, 'es this makes Intercontigo easier and tightens dribbling. You still have to work eround the ball and it can be swiped away. from you very easily, but it len't quite as free running as people may be used to.' Everything about Striker is geared towards the arcade alament and it works very wall. For free kicks and throw ins. a dotted line indicates the path and height of the shal, and penelties are viewed from directly behind the goal, with a small cursor pessing from side to side. Paul is obviously vary pleased with Striker, and with very good reason ill succeeds what a most of the 3Ders have falled - In the speed area - but retains Kick Offic obvious pievebility Watch out for a full review next month. But now, over to Teque for a slightly arr., different lock at Football

# EURO FOOTBALL CHAMP

If takes a lot to make Teque a Dean Lectur a inappy man, but Talto's Euro Football Champ coin-op usually brings a smile to his face. It's brilland, 'he easys, 'not only is it an excellent Football gente, but there are elements of mindless vic-









# I PLAY 30 SOCCER

Released by Impressional Milks on board windows; better liver is judged. Utilizing Jr. 28 System prolements by Microprosa's intermedial 50 Sports; programment. Smitholob, bravely see a Sports; programment. Smitholob, bravely see a Sportself, proa window-bravel plant Aufflowy II is appointed; processional states of the sport of the proteat operation of the sports, project and the game analysis for individual pre-year layer law seed section of the property, project seed severed (care horizont by the proposition, the seed of the seed of the seed of the proposition of the seed of the seed of seed of the proposition of the seed of the will be seed of the seed of the will be seed of the seed of the will be seed of

# OWN COAL NO 2

Fin sized the first processor prosporable for the price of guidage sequent rule, that synthe recent skely to spot a copy of the game (unless if it right a fine battom of the begain lost), illusted vary too much. The roots amount through about Hothel's set is cought in processor of the game is raise and the bully anti-prison desting which having out of the back of year machine. This studied flow naturally create to caute machine. This studied flow naturally create to caute machine. This studied flow machine is not pumpily, and referring explores the core studied pumpily, and referring explores.

# ROY OF THE ROVERS

Billisard around the lune when Grentin even publiabiling such loo-nation Heatense as Artura Clark Fusion, and SHATE (that a sucrason, by the wory). Ray GT The Rowers were a two-stage shall following this advendures of everyone's fevorules Meichester player. Ray Risot. The first hall at the game were a ples-poin standard-aventines whose Ray had to locate his miss arcife/daventers whose Ray had to locate his miss

Ing learn-crailes Bibliotis Gray and Co had been kinstraped by a riflhies properly developes who wested to buildoor lives growing order to a supporting craile consomiting, and Rely had to row a series of puzzzies and consistentily return to his Marris house for lear and harbin regionsembered if he was to accessed Once Mildrottes were referred, an ever worse Footy of the Mildrottes were referred, an ever worse Footy or buildrottes - worse order has left his major to buildrottes - worse crails had left his major post before the review crails had left his major gray order for 18. by dy gets to see Nove bud if is your left for 18. by dy gets to see Nove bud if is

# OWN COAL NO 4 FIGHTING SOCCER The worst thing about Fighting Soccer is that it was a

crap cairs op billiam it insched the Amiga. You would have thought this Activation is Big Chateses word have thought this mann, this is a part of drivel, let's got out chaque book away. — but no Somison, in their liffinite wordow inself a convert the big guide spartes over for the Amiga, along with the "southing and revolutiously" objection paper. If it result? A conversion which was very worse than the colle op and Adhestor religiated to the Texush is one.

# WORLO CUP SOCCER

Not to be confused with the fermiorning fills common that Amps vision of the Sangh stopparties game load a for the fermiosition. The Megadine again load a for the fermiosition. The Megadine entirgine was a sent laught – of lattic rescribly publish memorities and hard very learn monagen to state the simplestly, but they sent lest and pills was stopic. Elf-monagen to state the simplestly, but they sent lest any office of the speech of the speech of the speech of the simplestly with the speech of the simplestly and matter and lattic proposed states of the speech of the spe

lence, toof Quite, But it's a good job that Dean likes it, as his busy band of Tingue coders are currently putting the finishing touches to Demark's conversion

Viewed from a side-on perspective, the Euro Football Champ coin-op can be played aither as e 'Genliemanly' Football game, or, with the cabinot's reign buttons, as a foul lader scrap, with short-pulling and leg-hacking abound. The comop pleys a brillant game," Dean continues "end has everything you need for an expellent Footy game it's last, it has plenty of sauly-accessible moves, and the violence is the loing on the cake " Among the many moves evallable to the player are bloycle kicks, headers, end the players can even be made to Indular in a little 'Keep It Lio' using that knees leet end chest! The moves depend on the situation, and if a player stands still, they can chip it up and boot it over their head or simply let Ily with a long, low shot

Another aspect which Dean Ihinks the Domark geme will excel in its in the Goal's even 'They are greal," he continues "Whereas in Kick Off or whatever they can save or miss and that's it in Euro I hey're regular little Petar Bonettis (remember him?) who can be a shot over the bar, fumble it and be emazingly acrobatic 'So lar, it sounds like the pedict Footy game, how accurate is it? 'Apart from the violence. It's pretty much perfect. We've been playing the coin op non-step - actually it's in to repair at the moment! - and we know what makes a good game, but there's load of smaller louches which are also worth going in " Such as? The referee, for instance, is really fall and as a result, can't keep up with the players So with him out of the way, they can start fouling and kicking chunks out of each other. In addition, it a goal or equaliser is accred in the lest faw secands of the game, the score; goes ape

The main bulk of the gama is now complete, and the coders—John Brogoy and Rahm Aboulfree currently adding the games is presentation and raid data for the games it May release. And with Krasalia's John Burnes and Man Lift games also railing from their London base, Tacque containly have good Footy crederilatis. Over 10 you David.

Erm: well that's ell we've got time for this month. Next month well be prening the results of most in Next month well be prening the results of most of three orthocoming matches, and it's quie anteed to be e germe of ups and downs. In dediction, the first of the former in Knestla's John Barnes' European Societh- that already made it to us - eithal to le lake warm receiption. But, et his end of the day, it's seles the dought – and there's containly some compellion on there.

## FINAL SCORE.

While II would be critic to precise where the server are still server will be the beauth are still server and an extensive will be the beauth are still server and the flagging pass of storing the development — I have be a still server an extensive to the server and the storing to the server and the server and the server and passible of the server and passible of se

# The quest for the perfect Mario game continues, and Ocean have bridged the gap between Amiga and console playability even further. Recruiting the kooky Addams Family as the stars, have Ocean produced the ultimate platform game? Steve 'Lurich' Merrett enters their sprawling house...

dass declared for ann-spriding, drasturies and solvel appear to be belief anninging Speed Happers

S I Margarita Proposanti di constitucione di constitucion

Thinkes points the general are a series of uncoming element desern. For makeness, consisting the start specifies right lipsons up a winter of moticulated property, philoso when some similar hand towns animatestal elements are after bound maken the recent elements order.

Reference matching lessel difference and a treat participation of a treat participation (greater, full difference) and the second section of the second section section second section sec





# 

CREEPY...

From the stumber organizing a separate barrier-trength parce in Jankery Kor-Merot has come a long way. Since Super Mario Brothers and the horiz fally-seroting platform solice solice with the first ballot of MES console Witholly every platform gents since has been compared in the service of the service file fil

Aguga hee the first 'risel' threat to the Brooklyn Plumber, se those creepy, lookly, spookly, and ookly mambers of the Addems Family make their America dout.

native curring a value to "Missioche inter Ho derwend ligo, and went samy fairly lotter i saw. Since then, the game has come along in leape and bound listerity, and although inter found are the parellast the programtion that de richnally become for dicest the Amiga will get to a Merio game – and if their soft the ultimate accolede, then I don't know what is...

KOOKY...
Taking notice of past icensed failures. Ocean have opted for the

"Hudson Hawk" route, edopôno a sm gle gemestyle rather than e mishmash of sub-games. If had elweys been Ocean's Gery Bracey s. intention to rival Mario, and on perus ing the film's corpl, he decided that Addams had the pertect setting for if Family's sprawling mansion, and this allows the game to be broken down into five distinct areas - le wings of the building. The scenario tells of an evil property developer who is for warding plens to fletten the mension so that he can build a senes of lowerblocks on its asiale. Obviously, this has encountered resistance from

the kooky clen, but such profesta-

tions have been stemped with the lidnapping of Granny, Morticis, Faster and the kids, feaving head of the house, Gomez, with little option but to scour that house's many derk confdors and zooms in seech of them.

\* 100 s

Once collected the Fee-Copier is trystantic However it can only be beed within the current section and is loci it taken into prother.

end, in doing so, defeat the mysterious kidneppers. Just as the scenero is lar removed from thei of the film, though, the Gomez sorile is equally unreleted to the film's Raul Julia character With his squal physique handlebar mountache end incredible running and jumping finesse, all Gomez requires is a set of red dun garees before the Irensformation into Mano is complete However, that said. Gomez can metch Maria move for move, and even has a low extre tricks up his smoking jacket's sleeves. For example, a llying Fez (e. Fez-Copter) can be toute in some levels, and can be collected to get Gomez erborne and oest particularly

MYSTERIOUS...

Sterling in the hallway, five doors ewart Gornez's eltentions. These form the entrances to the tive wings and contain a sense of creatureinfeeded mores and the quartier!

> doors lie the gerden. The kinchen, a dungeon, and obter such reoms, end lotiow wither a honzontally or eight-wey-scroling path Oceans studying of all things Mano ello shows up in the animation and control over Gornez As can be expected, the loystick sends the moustachied hero scurrying to and for and press

prompts him to

# ADDAMS FAMILY

issp, but these emple controls believe the true athinisters of the sprile. The length of such jump can be detained by keeping the psystem control of the detailed by keeping the psystem of the detailed by keeping the psystem of the character a casemia to the sprine and burned med hump. The fluxbolly over the character a casemia to the game as to develoy the amongang nessites, Gomez can other jump control or the character as exercised to the proper method is obviously the most levourish or servert through the procurable, as several through the procurable of the procurab

points ere given as a reward, but wordcance is less risky. We will be an expendent of a wordcange of the pattern of the patte

# ease of use of both Mario end, indeed, Gomez that there's no room

Geory has demyoding in the Earthly Mannmann, it will above "Marrison, Stanforcedade the hard dings disters, no indexing the introducing behinding in disters, no indexing the introducing behinding the manner of the Earthly Manner, with public distribution of the Controller, the Adultons, the Liberty, and the Adult of the Controller of the Controller of the Observation, the Manner, and in the other above within the half-ding are a marrier of which the Earthly Liberty Territories, assents of the large classific and the Manner, and in the large classific and the Safort the joint, and did to the Liperty Liberty and the Safort the joint, and did

parent the very fits on appointment by florencorted follows who are althroom to period attacks: Sicilizery, or entering the gorden, access to the Earnily a Measulates and the lold poor of a native aposally has see to getted. The forms of which actually ported the wary is silled Wedsandray's resour-entering the plot of the

recent Alle cather sicely.
Other recent quite set inger that one recent replies of length that one recent replies of length that one recent recent, about the length to lart, secret, who the like nevery as his from a will relief, pure bound-like never the secret along a long length of length like open one language.

soli the area. Those see often holden helden never figure or warm helde for month of yet flows her my auf frestory dearned declared grange beauting boorts to enter dyen with appellancy. In addition, 21 naturalisms our thread in a particularly matth around strong of "Coorlines?" never — but a set presention has





for unnecessary tell-genes or complications. So, what you get are hundreds of inacty-induced screens, all ready for a good bouncing. Additionally, Additional insulies are all ted in with these respective lerviss, so the gorden features horticultural horrors, whilet the kitchen hes custery-weighing chels not the like

## SPOOKY...

Gamez begins the game with a sal of five lives, the length of which are determined by

e somes of hearts which act us energy reflications. These we standily reduced should Gamaz come into corriect with a nasty or hill by one of the many swinging axes or reputfing cannots that from the game's parettul static obstacles. However, to replication any loot leathy, throughout signs which out agile here can oblelect. Twenty-five oil these trongly.

signs go towerds an extra energy point, whilst a hundred grents TO THE RESCUE!

Bates the foll/vision's muly members are freed, Genner must take on the messive "Boss' creatures who stand guard once them. Although they are present them. Although they are present them. Although they are presented to do any, there's still the danger of conting finite certainty and the still the danger of conting finite certainty and the still the danger of conting finite certainty and the still the danger of conting finite certainty and the still the danger of conting finite certainty and the still them, and these largest presents and the still the



to recore Pagesley, Wednesday, Grenny and Fester, Int Its hardest family member to free is Merticia, She is trapped within a final section which can only be accessed when the other feur have been rescued. Even se, there are still form, offness stages between Gemax and

extra life. The goodles den't stop there, though, end useful power-ups, such as limited invulnerability, can elso be collected.

With The Adderer Faratily, Ocean have produced what is quite easily that heat game yet — with the possible exception of the halflant Priorition forgat the lates of Batharat The Mone, the exception Ribbocop III, and even Parasot Stars, The Adderers Faratily is pletform perfection. Feweritina shout the same, from the Preventina shout the same, from the





MEET THE FAMILY... Starting the ac a certaic of along to-brane jokes in the New York Daller, The Addenic Family have sless reached a poster springer staller TV and affect across Crightelly, the lentily were limited to block-humoured one liters but with the advant of the which was ler haller (has its spetart

Watnebung The Munoters - see In pourself on BBC2 where the series in carmedly anicelan a rame. Do the ing referent absolice decision that a "helf-korr joke" coold be stratished across a hea-bour semanalay had the firm a duck and arrivacy harrass and paried costing and it wall tale recogning of hig budget purposes Propage to recel The Address

OOMEZ - The beat of the Figure ézation rangelle who le total le excessed wild the between Marticle ESSET Delectrons of other loans lackade till mostlye beld sel fler von In such the cross will a produce of specimalar cracton), and pestup spaces with the draftus. Feets MORTICIA - Suchs also year

ands feetfalls is a real family lady and

Wednesday the Property - even juring so for so cleaging from from telling noted other. Also all lecture - per-Statistic But in her must budy - the in extremed judge til obsranter, but perfectly excitable la arouse she is

UNCLE FESTER - Although to in General bein Brather, the two see completely dissinater. Whereas Corres to pusetly abe hereferrer Fester is short, stocky and build. A real units to the lab where he is a moster of galante. Pentinendores bid nince also negless also care often be bound policy to their density antics and

WEDNESDAY - Medicio and Gamez a Baogitter. A las of the Grand Galyani Katoos Qi Gam." Wednesday in less insigning by death and rearier. However there is a selfer side of her entern you school that les I linging to minclescute har Meditor, also can be found gloying with her handless dails

PUGGSLEY - Washenday's long-sufficials Brother line security on decloser Enlarg near impolition to his Girber, who his becausile for its a mini-particular, with which his becauseful and all will wround says hade GRANNY - The storoglypics i all cross, Granny can be leaded carcille, for way they all the books which experimenting the Berdack compical govern. The enjoys Its sold party and activated decision scange to the rest marthin marrier of the lamber

LURCH - And practily a recenter at the lamby, that a fertal Buller also plannical Plans virtuous. When mal Builty his maggine physique le seld deel to the hones's big der ensects. There's neithing be hape years then the bling the learner or the appreciative family all areals: THING - Thing is a bendy little beloer - thurstly! For sampson sedace bookly autourities are invoted to

feer lingers and a thorst. Thing is morntaloply adaptable. He can got things on the trallay massage on acking brow abo wall built ablests

Addents Family movie was crying out for a decent game based on ii. or whether Ocean's programmers have amply pulled out all the stops to produce one of the best platform rames ever but whatever the reason for Addems content and style, Ocean deserve to be rewarded. It sames that they have Islaned to people complaining about the likes of Darkman, Tolel Receil, and

Terminator /L end come up with the perfect enswer. The Addisms Famely hee instantly become one of my alltime levourile games, residing up their with the likes of Klok Off Li Reinbow Islands, and Jimmy White s Snooker, and as a decidedly picky all when it comes to what I'll actually pley in my own time, that's praise indeed Steel a copy if you have to, bul this is an assential addition to every Amige's software library Thay's pertainly poky by me...

Way 1912
PinMores years
Table Javan Higgins
Convenience and Times
Sector cont
Joyntick

**DCEAN £25.99** At last! The Amina equivalent to Marip... **GRAPHICS** 92% SOUND LASTABILITY 95% PLAYABILITY 94%

**OVERALL 95%** 



IOHN BARNES'

TITLE CHASE

Following in the footsteps of Emlyn Hughes, Gary Lineker end Peul Gascosone comes John Barnes No, I don't mean playing in the England squad, having a hit single, or becoming on internationally-renowned player - he's done that eigredy I mean having a computer game & carned after him. Although, to be fair John did pley a bigger part in the development of this game then smill candidly white holding a joystick for an appailingly crass press photo. Apperently. John hed his hand in the dogs all the way through this game's development this leet are let too preclous to use), but I'm not sure that thet's a good thing - it's a bit like Payarotti telling Stock, Arken and Wetermen how to have a hit

The more football gernes scores, the more they seem to de mutations of several previous ones. Kick Off was midway between Spendball and Emirn Hughes International Soccer, for example John Barnes European Socour (JBES) seems to have prinched ideas from Emlyn Hughes, Super Soccer, Melch Day and, of course, the mighty Kick Off

Unfortunately, it also seems to have borrowed a lot of that bad points The basic design is standard fare Eight teams compete in the

European league for the champianship title, with your opponents controlled by alther human players or the computer Addregatily there's computer-controlled apponent You can play as any of the teams, but if doesn't really matter as there doesn't seem to be a lot of difference hetwoen them

#### **OPTIONAL EXTRAS**

There ere a huge array of options to work your way through before play commences You can choose opt for weather effects, whether to display a Kick Off-style scenner; the length of the melch if you control the whole team or just John, and the associed control methods which include an option for play with a Seca sovced Once you've found your way past the various options, and selected your team end one of the six basic forma tions, you can finally try your hends (or feet) at a match



Il it's graphic like and thrife you're alter, you don't need to look further seen on a football game. The player spoten are large, and very wall ansmated, and players' heads even Irack the ball as its passes them- most impressive Similarly, the crowd bob in their seals, the referee constantly sivits about the screen, and the play and skin colonrs. If seems that Krisalia have gone for a lootball game that looks like a okme al lacibali Thus they've done excel

# FOUL

recwaver, it also seems smulate how eithers! e small leal of Cabbage bell - especially when faced by a computer opponent who could put Pele to sheme. There ere a low major flews with the playability the controls being the larguel probiems. The response time between

joyebak and player movement is sim ply loo long, end often means that a lot of the time pleyers are sent loop ing round the bell, but never grate connect. Also, the length of time between pressing the firebutton and kicking the ball is etrocique - a full second and a half at one point. The strange thing is that this rule only scents to apply to horran pleyers es the computar can accurately pass tackle and shoot without batting eneyelid. A typical playing sequence

goes like this. Homan player gets he apole a player just felt of the goal in a perfect position la shool He runs. He leaves the ball behind him, malisan

races back lowerds the ball with a computer player mere inches behind him. He reaches the ball first turns and pressure the button to kick the ball npfield In the small wait between fireful ton and locking, a compiler pieves

white the ball from his lent. While standing on the spot it passes the bell backwards to another pleyer Another two perfect passes end the

#### **GAINING CONTROL**

After their excessful enchester United games for Kriselle, developere Tegus decided to upgrade their control system for John

Sames European Soccer. The besic controls remain the came, with a short tap on the firebutton elving a low hall and a long tap giving

a high half. Holding down the fire button 'locke' a player running in a direction, allow ing you to select a direction to tare and kick the ball.

The other players are now far more intelligent than before, and will meve into positions to recieve the bell when it is passed. Passing etili len't se autometic se in Kick Off, but it does add a nest touch of reeliam

computer shapts a goal street into the back of the net Most ennowing

#### BARNES STORMER

Everything moves about on-screen quite first, and this is a mai accompishmeni when the size of the sprites is taken into consideration It's actually a little too fast, though adding to the overall difficulty of ont of the ball. The way the ball is lucked is dependant on which way you turn the lovslick with the fliebutto depressed Sometimes it will go a 90 degrees to the disclion you are running, whilst on others it will go in the direction you're going, but only a couple of yards. Kick Off's controls were complex, but logical and intufive JBES controls seem to be

merely ex/sward and impredictable All the graphical thrills aside, John Barnes' European Soccer seem to be little more then enother professible star licence. It has dashes of real inspiration - Teque heve creeted an excellent free kick system. Whatever a player is hecked down in the box as they pick Thomselves up your apponents form





both your and your appearant's faction. This way you or e of play alightly by weakening their street



May 1992 Factball Size Troug London Joystick, Meuse Sans Joypes sembars of disks 4.10

number of players hard dok peoples in HICKETY

794 Makes use of azzanded me and chips

te celebrate. Ourling on sooving a spitting right feater, a Outch player

a defensive well. As they do no you are invited to select the taker, and position a handful of etteckees. where you ere airning to punt the bell. After the opposition has done the same, you are given one more change to position nother player.

However, even with bnihani ideas such as this, the game still can'l cul it. Excellently presented JBES advances the lootbell gama a image and look wall into the 90's, but the pleyability takes as right back to the days of the internous

# KRISALIS £25.99

6 Nice Leps, shame about the game GRAPHICS 89% LASTABILITY PLAYABILITY

**OVERALL 75%** 

# MILLENNIUM PUTS THE WORLD IN YOUR HANDS



# GLOBAL EFFECT



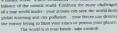












A distant world a new civilisation. You control the delicate



MILLENNIUM



## SKI SUNDAY

# anyone out there remembers the Epyx senes at sports simulations, then Microid's Super Skr 2 will be a true trip down memory tarns Soper Six 2 takes the would be Edde Edwards through six snow and ice-based avants at a rare to rollect as many gold. medals as possible. However thankfully The Eagle' Edwards Ficence that Bite Intohered the original with when they distributed a a few years, back

Us to tour human alevers can remove and they take Jurns at the different events. money on brading them Though as they soom to have a better idea of what to do than

As the little anguests most of the events are variants of skeing, and these are sold into two groups. The first comprises downfull swing, the stalem, and the grant stalem, and muscli the action. The centre of the somen shows a sprite-based 3D view from behind your skier as he hintles. down the hit. Both the stricm and

and right between coloured flags, whereas the downthill event simply involves reaching the bohom of the felt in its fast a type as poscrbin Pombs are awarded for the fastest time, but time penalties are added for faults - missing a gate instead of going through it, for example

**EASILY SLED** The Soal trip of events are a little more inter esting. My personal favourity has to be the Bobsled - and Marrold's version is certainly the nearest tive ever come to whateless from a stippery lunnel whitst offing on a Go-Cart. Viewed from behind the obver, the a danger

ous dash along a fact-moying. polygon-generated track, following the fastest line possible whilst climbing the banks of the curved track to harde around corners. The fireling of speed is quite incredthis and climbing too high up the tides of the track may result in you flying off the top.

flying away into the distance and landing with a seckume thad. This arise a real element of shift and brings the amutation probably the closest such a game has come to reproducing the event -

WHERE IS HE NOW.

EFE IS HE NOW. The original dayor do not improved by Ellin, who of places also feather with table of the state of the control of the control



Next up are the Hot Dop and Sky Jesse

events. Hot Dogging is a strange sport which ravolves making as many flash moves and bumpy track against a computer opponent The more possy the leap, the more bonus points you score. Finally there is the true test of stomath strength. Speeding down the some ramp, you have to try to knee your skier balanced as he files through the arr and then try to land him successfully as he

Despite the nutt loading screen, the game's presentation is auguro, and the obvious time and effort that must have none min the orachies and saimation make the game sim ply shini. The sprites are large himproxis and full of character. The faces of the bobsled team as they fly off the track and min the ground are a delight to watch, sent the stometh-chuming grunt made by a downhol skier hitting a true zead on a 135 mph is a real front for sadicts

Il pizys well, too but not quits well singuigh For the beginner Super Sto 2 is a little disheartening, as the consistently earnilent performances of the computer players give fittis incuntive to polish up your act surely eyen Franz Klammer takes a dove every now and then it took me a good half a dezen goes before t rould manage to claim a

Pasts for a good law weeks

The second line of the last of

single brodge in an event. Like the many sports simulations praceding this, I doubt even the vanety of events or onal precents bon will add the minh-needed tasting aggest for the single player, but multi-player armchair mithusiaste will probably stay on the



## MICROIDS £25.99

6 Excellent, but ult	mately
short-lived lun	,
GRAPHICS	90%
SOUND	87%
LASTABILITY	B0%
PLAYABILITY	79%

**OVERALL 80%** 



THE ULTIMATE TURKEY Warlety recarded as THE worst Nm of all time Sinc 9 From Dates Seace is certed tox a came adaptation. Which leads me to ask: what went

What protended to like live's plot fea-Firms a fiving saucer crash-lending on Earth Whist they awaried its repair, the flendish even created a zomble (played by Swedish weight-titler Tor Johnson) who was under the populated the saucers Commander - the sedective Various As word gets round about the alien presumen the extra-terrestrials come under attack from the local army reserves, and their alanaus assants are portraved by World War II news-reet foolage Likewise, adding to the trim's mystique(f), a myste nons cowled figure creeps around pathags this suspicious stranger would have had a mora prominent part in the proceedings of houses legend. Bela Linguist hedn't died early in the filtra's production (s) It the show must go on)

Unfortunately, virtually all of this mishmashed plot is lost in the game. which inslead casts you as a private disappeared - it certainly makes you wender wity envone wants it backt in fact, one of the few things that connects the gama to the film is that most of the men look like Tor Johnson's zomble character and the woman resemble Varingira. Good





SPECIAL DEFECTS. The dramatic conclusion of the firm has the finite success mainting well, burning - la mid-nir Burley an interview with you of the filer's area this scene was little of be 'two tie pirtes stock begeller, covered in Sure lay lighter field, then desgloß from a string'. The come exember retorine that If was no such talen there work? prough cash is the budget for fix plates sa they need paper area (refeed...

any machina

hard sick custoffable



ideas, such as role-playing, are noticeably lacking in what is one of the most disappointing licenses of all bma

Plan 9 bots down to a very run-of-themitt count and click adventure. The centry tion, including any present objects and characters, while in the bottom-right cornei is a list of evaluable commands. These include take, drop, Inventory and talk, and deed and on the object within the display somen you wish to manupotate Similarly Las offers you a multiple-choice sel of gnestions or responses, although only one wit have the desired affect Unfortunately, though the choices are rather obvious with the other options coming across as complete drivet

## CLEVER DICK

These are plenty of localisms to explore among which you'd find Belle Lugosi's house. Rec. a bal-intested cave, and a GIA building. When all six reds are retneved its up to you to use your

editing skills and stick them together making the biggost turkey of a him evel - blimey, a a Film Editor what a railty! One redeeming tealure (allhough game) are the graphics. The

backdrops are detailed and atmospheric and the variations on Tot and Vamplia are next. On too of that are some very use animated effects which help patch togother the somewhat ropey almosohere. There are also plenty of sampled sound effects, including screams and croaks, which are supposed to surprise the player, but usually just wake you up

tt Pier 9 had more to do with the film 4 world have bittilled many peoples expactations, even with its many fanits Personally, I'm highly disappointed II's frustrating to see such a good idea wasted. This is basically a standard, and very untrispulky adventure with title to make it stand out from the caped if you're after a good example of this gents. check out Ehera 2, but definitely think

## GREMLIN £25.99

& A tragic waste of an excellent licence... , GRAPHICS LASTABILITY PLAYABILITY

**OVERALL 64%** 

# "It's clear from this evidence...



# ...that we should be playing Sid Meier's Covert Action."

Use your skills in deduction to foil terrorists, spies and criminals around the world.









#### TANKS A BUNDLE

These days singuisties are becoming as innivitable as cid-age and the European song contests Facilitie. European song contests Facilities as the follow-up to Englate a sections Team Yearless Pacific as the follow-up to Englate as set around his sum time as the periodic pacinity which year control picture of the garmer and property which year out to the garmer a name control pacinity on the garmer is durined up with the morphole's have fourned up with the immigration have control pacific archipological of Yanne Yanne.

In a wintwind blow from fate, you and your platoon happen to be on a nitip returning from the Quilt vis the Pacific, and, as you're the closest, you unit of exteen errorured vehicles has been selected to liberate the stand. Well I never

#### PLAY IT AGAIN

Without wanting to sound too dismis sive, I'd spotted Pacific Island's biggest liew within seconds of land ing - it's virtually identical to Team Yenkes. Okay, so there are loads of new leatures end ideas, but the similanties are so great, they sign't something that can be easily ever looked The graphics, for exemple, are extremely similer, as is the control system. In fact, with the exception of a few more user-friendly panels the only major changes have been to the scenarios which are brilliantly inter-related, and the addition of a screen which lets you select the next bit of island you want to attack Anybody who owns Team Yankee and buys this may feel a little



speed. Next in line is ITV which is not

ing mere than e misalle faencher on

with a left emount of thepower, but not

ob in the way of armoon, no they're

haels. While not very well econoured, its

cheated Obwousty, Empire were also concerned about this, which is reflected in a chapter in the manual which explains the differences between this game and its predices

sor — for all those who hadn't noticed, I suppose A better idea may have been to ridease the game AND some sort of scenario deta drik for the original. At II stands this is derigerously similar to the original.

#### MAKING ENDS MEET

One prominent new feature calls or you to remove your battle-gest and play accountant, Each time en enemy unit or building is distroyed. you eem yourself a cash bonus. Al the end of a mission, this money can then be spent on repairing your vehicles and buying ammunition. Here's the aneaky bil as the gerne progresses, the enemy become loughe and you expend more ammunition and lake heavier demage, but you don't always get enough money to cover all your expenses, so you end up treding off shells to: tanks or vice versa - eithough it is possible to purchase a slightly-used second hand model (presumably used by a limbe old Lady who used to drive if to Church exch Sunday). To tell the Iruth, I wee rather put off with this lesture. I may be on my own here, but I'd elways thought a tank commander's job was to shoot things, not balance a budget I in guite content with wishing the enemy, I don't need eny of the financial rubbish - I'd

rether leave that to the buereaucrats

and it comes across as similarly out

of please here

# PACIFICISLANDS

#### RLOW BY BLOW

There ere live Islands to lime, and campingns Normely, you're called upon to achieve these or four objectives to complete a mission. These usually have your pletoon destroying a communications post or some other enemy site while ensdicating every enamy unil you come across. To do so, you have suteen vehicles, ermed to the axies with missiles end machine ouns. These stateen ere furthat divided into four squeds of four. The Koreans see were to your landing, though, and have prepared by tavino mine fields, digging tanks in, and sending out scouts. It any of your vehicles are spotted by an anemy petrol you have to act upon them a bil smertish, as they usually scurry eway to warn their friends that a large

bunch of Americans are on the way For a little extra help, you also have a few artifery units who I lake advance bookings. Before you embark on a mission, you can ask for e minefield to be leid or smake bombs, high explosions or multiple warhend shells to be fired at a perboular location at certain times The down-shot of the is that it's very saw to edvence laster than you thought, and and up on the receiving end of your supporting fire. If you want to take advantage of this leeture it's basi to pion should and keep to a very strict battle plan. That's not as simple as you might think, as the lamptelion to keep on pumeling the enamy is a great

#### CONTROL SYSTEM

One of the poliship features of this. and of course Team Yeaker, is the axcollent control system. Creating a system that ellowed for edequate control of sections vehicles split Into four units was a major echievement by the programmers and they have pulled it off admirably. The game is played via a series of three displays These include the gunner's-view. where you control the tank and fire its weapons, a map screan where you select your objectives and guide your ofter units and the status screen which shows how well each pletoon

The men game viewpoint has the screen divided into quarters each one showing e gunner's-aye view from the command tenk of each platoon. When something happens to a platoon, you enlarge each display to fill the acreen and consequently take in more of the action. All the commands are Issued through a point and chick system via a sures of simnie icons, so there's elmost no need tor the keyboard. This goes a long way to making the game far more anyoyable as you end up not having to think about issuing commands. In addition. The all-mortant weapons are equely simple to use, and can be switched between quickly and amoothly.



the left HEAT shells pack quite a punch equited buildings and beop carriers, but are itself lective against heavily emocured sufecion When you're baced with such a heast, you can report to SABUTs, which somethis of a depleted session and propelled by a hope charge which powers it through the thickest princes. For the nitimate in tank applications, though there are TOW missiles. These can only be fired when the banch vehicle to elehanary, but have almost beice the roops of their covererparts, are very accurate and initially powerful. Should you get trigger huppy and waste your missiles, you can fell back on your machinigen, which has an unlimited supply of among it a galla effective against lesses vehicles, but try to face off with a tent is it sed you if he better off raising the white fine





Out Nam proce Tank Sim Steven Gree Justing Kerrin Ay I washin desired Richard Horrs mausa, invatica

sawker of dah number of players hard disk carellable Yes 1.80

As with the first game the prephics are excellent. The programmers have opted los sprite-based Janks, and eithough this results in a loss of defini tion, they are all perfectly recognisable - in fact, while the programmers

were demonstrating the name of a show earlier in the year, a tank enthusiast came along and resied their names off as they Irundled on screen! More importantly, though, the updale is fast and smooth log, keeping the action eter rele at a ferrifort

lous budget-menaging espect, this is a good game II you own Team Yenkee, and are coming to the and of its missions, you may want to take a lock at this Personally think lihey'm tog similer game's rough edges have

ded and there is a great deal more to do in Pecafic, but I still can't help but think thurs's not enough difference between the two. I can understand the coders using a successful geme engine egain and again, but why not op! for a lotally different scenario - space, perhaps Stil, il you don't have Team

Yankee in your collection, then I'd recommend Pacific without hesite bon. It's obsorbing, easy to play yet still taxing, and second only to MicroProse's M1 Abrams in the Amena tunk-sim too inn











#### EMPIRE E34.95 Top similar to the original, but still great fun. . GRAPHICS 86%

SOUND LASTABILITY PLAYABILITY

OVERALL 83%

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Dungeon Master, Steve Keen, explores the bright and attractive world of Might And Magic. Are these the best graphics yet to appear in an RPG?

#### NEW BEGINNINGS ... After lighting your way through the

hist two Might And Magic advantnies it's only calural to assume that you're hangry for more. The evil forces of derkness ere back and it is gnerenteed that someone, somewhere, is going to be calling on your extraordi nary services again, very soon.

Might and Magic's game engine has been given a thorough going over The combal system has completely changed, and although it's let from perfect, it's much improved from way in on six disks, the game is at least lour times bigger then lellow U.S. Gold stable-male, Eye Of The Beholder, and an incredible cine book consisting of 250 pages has elready been put together in entrape tion of Jon Public's problems

## BATTLE COMMENCES

The expedition commences at the entrance to the watery calacombs of Fountain Head You are given a wellbalanced, predelermined party of six characters, including a Dwarven Barbarian, a hell-Orc Knight, and a human Paludin. The setting provides a steady introduction to the game wond, and eases the player into the interest levels. To begin with, nothing will ettack unless you're provoking it. and the main objective is to seek out the venous masters of the erts to Improve your skills and guide you Ihipuch [he later stages These experts include a Cartographia, who

ways to pess through the game's

for those of you alreld of getting your hair wat As well as the creeture content, the countiesa corridora elso hide all menner of secret rooms and perttions. Once they are localed, you can click on an icon in the control panel to break them down and pillage their contents Creatures lark behind every wall. The first stage monsters are lim-

dense foresis and the Sammer

ONE STEP BEHIND ... All magic neart are advised to keep

their spells at the ready. Combat is slow at the best of times, and engther bad point is theil you can't choose which character is going to ettack next Insteed, a yellow box highlights the player next up to light and you must wall until it selects the one you wish to use Normally, This wouldn't be so bad, but the computer gels rather confused if you press the mouse button too meny times. As a result, when it linelly reaches the character you wanted to pause on, I

phen slops past. Il yon're lucky you can obtain a spell from one of the fountains by throwing a coin into it. In addition, there is a resdeni Magidian's school which will take on young hopefuls, providing that they have bought a membership to the Gnild - and this can be found we e wandening Suga The Megicien's Guild Is used to understand and learn the megical properties

of the game's many spalls and also reveals the mysti nems which are datted throughout the play eres As you travel through towns it's

advisable to help people as you may reap great rewards Tasks completed on behalf of others will exhalt result in materialistic gain or aid in future puzzies. You stert off with 2800 gold



lied to rather well Bals who squeak a

lot and do vary little else but on later

Whisi the first betch of nestire can

be fought off using a combination of

cause umpleen times' more Irouble

group logether and consequently

fire socila and brule force, they often

stages they get repidly tought









he computer maps the world out for you as yeq regrees. 'It marks the spot where you are at all free and thenickly does sway with pure.

THE DEVIL YOU KNOW The uninged sumbat/world window ton't just a

portly facade. The consist during portlets a control security function. The given is the first of the control security for the control security for the control security for the control security for the control security. (Appelled, the discourage of the control security for the discourage in the control security for the



SALE OF THE CENTURY in every settlement, there are locations which will provide help and assistance. However, nething to this would be then and it's advisable to have a large amount of cash needy before bettering the store person. Fine's Finalize sall

ember and waspoot, at well at that little axiro xemaling for the washend. The Lendy Hearth allows you lake a lecables, get a first ned some grab, whilst assumfragaling on some camours Unlike meny either RPGs, whenever you nest your party will an restreed to full beath within als zec-

unds. However, a recting party are altring ducks when attached, as they'll confirm to along anill the characters are bit, which often issues one hero is face the enemy slone

# MAGIC







and of high athendra of energy out public.



places which are rapidly esten every by regular visits to explaned shops in addition, if you are not happy with you it aim members' standards, you are not visit the "only Winks Inn and his another gang, or create a replacement, Once the computer has rolled the new words (it'll even indicate the best occupation for them to follow taking into account their new skills

## MAGICAL GRAPHICS

Might And Miggle 2s graphics are nothing short of landesis: The detail used to depict the play seens is smiably subched, and makes the microsters seem even more lifetile. Trollic data be seen breething and you can even see these elomester moving in end out as they ettack. Globules bubble monsters maintale howards.

relever date
genra:
faces

Eve World Carsyol
Looks Johnson,
Benita Lorey
Hermath, Julia
Ultran (Repairs, Ma

controls | numbers of disher | number of players hard dish metallable

Todd Hendriz Is smole: Meiras slade: 6 layer: 1 flebi: yas merge: 1Mb you, onegoing across the floot, boils burning mandomly as they approach. The fountains that adom the first level enclosure actually look like they're comprised of digitised pictures of women's fapes, rather then the expended possible of ended they extually one — end the operall effect is amply excellent. All the usual inventory screens

ere included as well as the enclass lists of carried flams, However, I never came scross the need to plok anything up using the outsor, as eny liems acquired were entomatically placed in my inventory. The onscreen movement controls were a bit ol a handfol at first as there aren't any separate icone on-acreen; instead, you must place the cursor at the very top of the game window to move forwards and to the sides to move left and right. The position for turn left and eidestep are vary close together and unless you take real care, it's easy to become dispriso tated, especially in the rambling wilds

# SIZE IS EVERYTHING Exploring the towns, forest planes.

outside the towns.

Explaining the bowns, torset planes, villeges, castleen, maneloine and underground liabymilhs, it's easy to understand, used how lerge the gamele play area is. A datagoeingly simple inter, consisting of some thumping, music and a disambodied head flouting in space, grides your elemition from the start. This lalking semiskeletal flore is that of Sheletern, your nemesis, end he recounts in detail his plens for you during he third deal lenge in cryste-clear despitised speech. There are no real langy graphics, buil the combination of missic, facel animation and the lengthy samples is stunning, and sets the scene perfectly.

The programmers have gone to great lengths to maintain the tradition of the Might And Magic series, and this in made obvious by the geme's distinctive tityle Dungeon Maste. freaks take heed this is not necessarily for you, so the game's roots ere placed firmly in the Rem's Tate atyle of adventuring. Whelever your preference, though, this is top quality stuff that you're not likely to tire of quickly With over ninety fully-ans maled and detailed monsters, I doubt if many of you will finish it within months of constant pley - but it will be fun trying!

	US GOLD £25	.99
Ē	Great depth equali-	ed by
	Incredible graphic	detall
	GRAPHICS	91%
	SOUND	83%
	LASTABILITY	89%

PLAYABILITY

OVERALL 90%



The Slormford has retinmed, but anyone lemillar with Rell Cecco's Gname-like here won't recognise the star of 21st Century's, stunning platform based beel 'em np The only thing that this sequel owes to the onlesy original is the main sonle's name. I don't know what they've been leeding him down in rure! Oxlordshire, bnl he must have andergone some serious steroid

Not only is the Stormland back but his erch enemy - the evil Queen Bahd - reinms, too. She's back abducting the lairy gnardiens ol Llyn Cerrig , and has elso learned np with the Davil himsell to make anne that har plans won't be thwarted egain. Once more, your lask is to rescue the imprisoned lit-He folk, before the haggard crons drains the realm of its life-force and uses it to restore her body to thei of

a young women To help you on your quest through the lour-level world, you have been enpolled with an unitmited amount of bettle-exes and a set of five Opel stones which act as beacons and make the exploration of the game's pletformed Cestie. Pils of Hell and Enchanted Forest a lol easier. Despite the game seeming rether short at lonr levels,

There's plenty to do Additionally the gem's minnle size belies their true importance, se they will prove invaluable when it comes to plotting a path through the fortuous slages.

#### STUNNING...

It has to be said, if you heven't gathered from the screenshots already. Their Debyerance is graphi cally snperb. Owing more to Gods than 21st Century would care to admit, the honging birds and bats have come eligiph! from the Bitmap's clease. However, the geme is saved from being branded a total rip-off by its fresh approach and excellent additional touches Each level inglures a variety of muleted beests to sley, end they

Resembling jeun diced experimental beboons, the list level's bays are B-I-G. Swinging from refter to pletform, they emerge from every side looking to better you into a pulp with muscles thei would make the Incredible Hulk take onl e mem bership at Gold's Gym Your sprile's no Pee-Was Herman, though, and has two forms of

defence Holding down

come in spandance



The firebotton you can spew lorth a stream of twining battle axes which will either knock the Gergoyles out ol yonr path and onto a lower level or empty kill them. Alternatively whenever the lirebutton is held down and the joystick weggled up and down. The Werrior goes crazyand and enters 'Viv Richards Made' es he grabs his axe with both hands and Moulinexee the ghouls Into Ireshly-silced preces

Other nestics include massive solders which scorry through the linet level corridors. These climb

wells and callings in an attempt to Thenically, and adding to the game's already-impressive look

the size of the epnies hean't com promised the emonnt of animation and as the whirling





of detail has gone into the objects which the hero can Interact with It's impossible to progress through the levels without keys, and these are located inside the omele cupboards



Deliverance has everything a sequel should have - better graphics, improved sound, and a larger play area. But does it play better asks Steve Keen?



spread throughout the complex. Not ell house whel you want, though, so expect the unexpected - and the

deadly True to pietform form, complelion of every level rewards the Warrior with a massive guardien to contend with The first is a huge green Dragon which thunders lowerds you breathing the most realistic lire i've seen in any game The coiled moneter's liames burst from his nosinis and swirling amelies sparks bokie the els as they disperse in Hickening clouds. He's easy enough to kill, but worth com-Ing back to get a closer look of just to edmire the attention to detail Once defeated, the Guardiens implode gradually in a series of minor explosione until their innurde ere displayed emidst the ratting remnents - it certainly beats feding from the screen politely! In eddition





Every floor has to be explored very carefully as you dever knew what's going to less out at you. Avoid the fires at Hel

pieise they can gel Probably Ihn basi secuel I've ever seen. Deliverance doesn't offer enything new in the gamepley presentation equity litts i above Gods eng the fike it a so gargeous to look al Ihal you'll until you complate it - and even when you witness the impressive end ol-game

deserves all the

sequence, you'll be beck for more Pure sequel magici

#### buyers guide Out New

Heck fem up Kim Goussens (Grattics) Pater Verswyvelen Matri Book Misland (Team)

invallet mushers of disks: earnier of players: 1 hard dick metallables no menery: 1Mb

every defeated monster ~ Guardians included - leeves coms in its weke which are used to restore any lost health, so there's no excuse los not gattien in class.

CHANGE OF PACE... The final stage takes place in Heaven and the game changes style dramatically Suddenly esting astride e huge metellic, leetherwinged serpent you embeck on a honzontally-scrolling blest. After the splendous of the first levels, this is e real cop-oul, All the lest-moving

nestice are extremely liny com

pered to their pietform-based coun lerperts, but, elze oper, they ere still exquisitely drawn and the level very playable - with loads of the emeiler engels evallable to coffect

end power-up your sleed 21st Century ere making a name lor themselves with quality grephfeaturing excellent sprites and backdrops but poor gemepley. Deliverance is also well endowed graphically, but this time the oilimportant gamepley is there, too Anyone who can produce quality of this scale on our home mechine

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# & A stunning looking and

addictive sequel... GRAPHICS SOUND LASTABILITY

PLAYABILITY 90% OVERALL



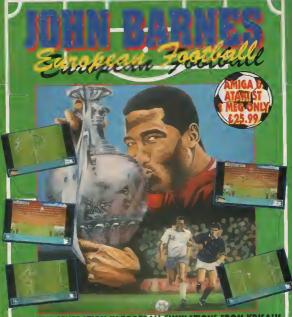


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94%

80%

79%



#### THE NEXT GENERATION IN FOOTBAL DESIGNER WHICH ALLOWS THE PLAYER TO BUILD

JOHN BARNES EUROPEAN FOOTBALL BRINGS THE WORLD FAMOUS TWICE FOOTBALLER OF THE YEAR TO WOULD FAMOUS THIS POSTINGENE OF THE TEAR O

TEQUE HOUSE, MAS

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SUBSTITUTIONS, NAME OF PLAYER ON THE BALL
THE GAME ALLOWS YOU TO CONTROL
JOHN DARNES OR THE MEREST PLAYER.

#### DAMN WEIRD

The company behind such varied releases as Bettle Isle and Atomino have now turned their attentions to a Japanese

inspired shoot 'em up. And it's word. The game e intro begins with an svi werlock casting a spell which sands thou sands of Insects rampaging across the

country he universy rules As the awarm 3/Weeps over the land misery in their wake, two Innoce

college dwallers come under attack. Huro survives, but his wife is badly bitten and, an her life sinwb abbs away her young love: swasts revence on the DarkLord. All of the is rendered in Jap-style graphics and a qu'in superb

#### **FIVE STAR ACTION**

each of which is made up of three stages Each level has a thame and related nesbee with bonus points accrued for each completed stage and special bonus

stages for successfully capturing spaceal levels is set in a meadoy crawing with bugs, insects and other creepy crewles There are both air and pround-based nasties to avoid and all are capable of spitting nasty venominto the as Starting with Eve type att additional Ma is agented at a set pumber of points, but just one het in felel to your small wests Various power-ups are available in the form of small rad flowers which are released after certain new

give a statisty of wascone bombs, quick fire deedly 'stinger' missies and triple-shot. There's also a drone fighter add-on which howers about your main sprite and give you some

ties have been destroyed

Once collected, these can

much-handed extra firencess Next, it's straight into an underwater sequence which takes place in a glosotic pood. Aquatic animals, of all shapes and sizes inhabit the gloomy depths but, if (fings become too hectic. It's possible to By back above the surface. Although the Might get you gut of trouble, there are also airborns opponents to counter as you just might and up piling into a rock



# **MAKING A STINK**

with empty bottles and cigaratte certors as wall as deedly toxine and skeletzi pirenhae. Come into contact with any of the politonous vapour clouds down here and the screen lips, reversing the controis and making things twice as difficult Inexplicably by the fourth level, your bny waso sorte has gained some metallic ennour and is now pitted against a swarm of robo-bucs and laser defense funels.

It a very reminiscent of R-Type which is 20th April 1992 sheet 'em up Blue Byte

1/2 mas

invallel ambers of dishe sumber of players 122 hard dick invadigation



In deadly waste products and other hazard

no bad thing, but 4 comes as a complete contrast to the rest of the game. If a undoubtedly the best level, made up of a number of maze-like lunnels and incor poreies some excellently rendered cybennutarits and androld opponents The line level pits you against the mos dangerous creature the end ford Haxes. ever created. Negotiating their neeting grounds your final lask involves their

bloody destruction and the successful retrieval of the antidote for your III gety Aprolys is a competent blast, rightly enough, and some of the 32 colous graph ics are very inventive, but it's not really in the top ranks of the genre. There are the usual end-of-level Bosses to take care of

## COMING ATTRACTIONS

percent Passel Blue Belo, forcefod to 1823 house Saliberstaty Papt a low grottle since their tecap Bon, preferring in Passe (bair garnes fint-include) by several European quidistars qual- as UE/Saft and Proposels. All that a phant in change though thanks to so socrastics ma reachting colicy From new on. Hen Dyle names will be Extributed in the UK by Kacagan DK L16 , run by Industry values t, Duncas I publish Asidys in ical and all several new files five parent school pied to summer over the security specific Other afferings (noted a Bartle rate II, the sequal is one of the most gopular stratusy games of recent months. Sight, a two-player statterm game sale In the Probistaric times, and Startight Gae, a 30 move-traffing govern

and there's a westdo bonus stage which involves a med scramble to pollects as matty bonus angele as possible whist avoiding the stage's deadly devils. At the start of the game it's possible to choose from four degrees of difficulty, a twoplayer simultaneous mode, and when an extre life should be awarded

Two-years in development, Apalya is an engrossing black its intriguing design means you're actually getting five min games in one, which can't be bed it's not gaing to set the world on fire, but If's no damp squib aither

# SLUE BYTE £25.99 £ Varied Japanese

Inspired shoot 'em up **GRAPHICS** SOUND 78% LASTABILITY 78% PLAYABILITY 84%

OVERALL 80%



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signtly likened by CU sun buff, Mark Patterson, to Kack Off with an wal ball, Rugby - The World Cnp have you clutching the controls

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cat job converting Tengen's comsometiments the fully digitised mattern

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# FERRY, KOOKY, OOKY, SPOCKY!





### They do What they Wanna do. of But not now that they've been evicted! Vlucticia, Lurch, Granny, Pugsley and

Mucticia, Luren, Granny, Pugsiey an Wednesday have gone back to their creepy abode to regain possession.



ATAM ST. CHM ANIGA



### play bow they wappa play... But watch and for Thily - he plays r

But watch hut for furly - ne juass mean. Tully is the trechevous lawyer intent on stealing the family fortune and who has many a dirty trick up his sleeve.

### dance how they wanga dance...

And you'll be shaldn', cattlin' and rollin' when the spikes, munsters and ghosts save the last one fur you'll if you solve the puzzles and follow the rines you might just the Addams Family so that they can...

live like they wanna live

THE REPORT AND ADDRESS OF THE PARTY AND ADDRES

### RENEGADE'S RESCUE

Following the sinking of Murous alongside Captain Bob, it looked as Though Fire And Ice. Graffoold's much-hyped culesy project, was deslined to join the ranks of James Dean and Mars Cops in the realms of never-released games. However, in a blaze of wheeler-deering Reregade have rescued the title and it's achequied for

an imminent release in terms of content. Fire And Ice is a bit of a step back in time for Graftgold, whose op founder and veteran programmer, Andrew Braybrook, is famed for some of the most outstanding gemes of the 80s. Andrew is the men behind THE classic C54 blester Undum AND the ell-time Amaga class sic, Rainbow fislands - excellent credentials indeed, end Fire And Ice

from Hannah-Banabena's 'tt's The Woolul' cartoon and Road Runner's arch nemesis, Wile E Coyote As can be expected, the plot is thrines then Paul Danists' hair. The Coyote is at home in the Arctic, playing the piano and minding his own

start attacking anything that moves. If transpiree (ha) n mad Egypten megician is the villain causing all the animals to go loopy, although it lan't expleined why the Covote is unaf fected, or why he decides to travel

## **PUPPY LOVE**

Our intrepid canne isn'i elone in his guest, though, and most levels leature stray puppins who'll make an adeptive parent out of any passing sporadic manner. As the nunover high platforms though, end travel in huge leaps, they often take out oneall their usefulness, though, they are

these, it will dutifully follow your every move, whilst repeatedly shooting in a mies way before you much them. For very slow and it's quite easy to leave Them behind Abandon them, or leave them on part of the screen



mes of late. Fire And Ice uses e jeypad ostice. By plegging e Regaritive ed in to the joyetick year, the past's button will come lute play. Include of halding fitten fire to unbreak your waspens, instead the B' Butlee to uend, saving time and basele. However quête from many Arrêges who will rook out use hay a ped la a different story. Sti

It's a sice teach. where they can't reach you and they let out e pieintive digitised bank inne-

sumably to make to you feel guilty and so you should The Coyote is ermed with a strange weapon which is obviously a

phiegm-based freezing egent. For an The nesties attack him, he simply spits at them and they are instartly freezan into cartoon-style blocks of ics in edition, these hack-attacks can be enhanced with several types of special soutbells which are liberally scattered throughout the game reedy for collection. These take the form of Invisible blocks which appear whenever a stray spitball hits them Further shots then produce extra supplies which are added to the Coyote's inventory at the top of the screen These enhancements include wide-renge line which shoots matt plobules in a wide sec: a stanetlarge gob which explodes a law seconds after being fired, end sev eral other types, including e shield

### which proves particularly useful. Our Coyote's edventures sees him

Iraveling ecross seven stages Starting at his home at the North Pole, it's followed by - amonast oth ers - e jaunt through Scotlend, balore eventually moving on to South Amenca and eventually the Sehara Desert Each of those varied arees is divided into several sub-staces, making thirty levels in lotal There are also e pluster of secret acreans awaiting discovery which, whilst not essential to the game's completion.



It's been ages, but Graftgold have at last returned, and their long-awaited platformer is here. Mark Patterson wonders if Fire And Ice will make him blow hot and cold...

### FREADICE

usuely contain benuses and special weapons. Oddly enough, although the apprario tells of the Megican's effect on the world's snimals, their lerocity has also rubbed off on to lihe venetation. Each locale has its own straigs of flore and fauge, which are also out to get you. If that wasn't enough, in the arctic you also have to fight off Enkings, walnusse, perquips, and little creatures on skit whilst in Scotland there are swerdwielding troopers end little fuzzy creatures (which I'm assured ere baldy Sporrana who resent never being worn) which leap out of trees

One of the first things that struck me about Fire And Ice was the quality of the arimation - it's nothing short of excellent Even the smallest characters - such se the delected Sporrens in Scotland - look great. What's really surprising is that most the effects are actueved with very lew trames of enimetion. The Coyote is siso excellent, and features great ettention to detail, such as his man nerisms and his facial expressions Aimost matching the sprites in terms of quality, are the fantastic back drops. The ice-world is the plainest of the loi, but, even so, lestures lore ground parellax, and shaded objects for the Covote to walk behind. Non touches, even if they aren't always

The music is another major leather in the came's elready building cap, and, most of the time it reflects the current setting. There's a highland (in In Scotland, for instence, and a suitably Arabic tune in Egypt. If her to be said that some of the tunes start to grate efter a while, but luckly there's an option to play with just the sound effects, so I can't complain too

### TOUGH LUCK

For the completely swful games player who may never escape the frozen confines of the North pole, there is a rather next Trainer mode This lets you play any one of the first four levels, with the benefit of eight Ives it comes in most useful for the South Amendan stage, which is appallingly difficult and all of the eight lives will be needed if you are to see the leter stages. In fact, this is where you'll come scross Fire and loe's

May 1002 Highlarm come Andrew Brasiconi College, Public Williams Roublest Jason Pago (bray)

John Liller (Senso) lovatick,keys sumbers of dishe unmber of players:

blakes most of membro: positioner Bw



beckprops, the sprittes are ambigry shered. Perhaps the most impressive stage and are shelted by Covole-eating plant arms of the sourrying



majicity more devices with the simpler platfers itsyouts piving way to complex lodges which will give way endor the toyole & weight. In add Cor, some of the plettorne pelog, too



biggest problem: its mixed playability The first three levels are relatively simple, but on entering stage lour, Things gel ridiculously tough This is almost excusable, though, as there's not much else to fault in the game and practice will see you through. This is one of the best platform

#### BRAYBROOK'S DAY OUT in a nice estam to his coston roots, on of Fire And Ice's stages leatures the

male character from his classic C64 name, Grobbly's Day Got. Time, Brench seates to have had an adverse his little Gribblets, he know chases the uses Coyota eround the platform leder screens As he does so, he also steal are which form the favel's bonness With rempers of an Amige Unidiom sterling to circulate, does this mean that Gubbly a going to be making a



names I've seen on the Arriga It's extremely pleyable, the graphics are nothing short of lentastic, and there ere so many great ideas and smart touches throughout that you need to have an extremely keen eye to notice them all Despite its slightly 'kiddie look, Fire And Ice is extremely challenging, and, once you've completed it, you can always go back and attempt to find all the secret level

With Fire And for, Graftgold have made the best comeback they could have hoped for. With Penedrold peyer appearing, they needed to bounce back with a real smash, I'm pleased to say - se I'm sure Renegade are - that they've got one

### RENEGADE £25.99 & An excellent return to

form by Braffoold GRAPHICS 90% B5% SOUND 87% LASTABILITY PLAYABILITY 939

OVERALL 90%

It has taken control. It owns their minds. It imprisons their bodies. It even absorbs the building! It's..

# **EKATION**

A secret project is out of control at Genoq Corporation, the world's leading biotech research lab. The building is In chaos. All employees are either dead or zombles. The security system is blasting away at anything that moves.

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is your task to destroy it.

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Yet again. Sierra is concentrating on the exploits of a space travelling hero from the sewers. Sarah Hibbert asks if it's really a giant leap for mankind...



at regular points skering the garne, promit up in much. Siava Insughtfully provides a fain! book to the same for a ree sanable axtra cost'. Unretr...

### MILKY WAY

Hey duded it's time to get wacky and wand with two guys from Andremeda and a freelance morgalactic sanitalicu engineer nalloc Ropar Wilco. The lay in this sort of game is assentially one of exploration, puzzle solving and entering into conversations with total strangers. Wilno's home planet of Xenor has been declimated by unknown torces, zambles and drolds are wandering the streets, and The Segust Points from Space Quest X are after Roser's butt. Does the mysterious allen building in the distance hold the solution to these troubled times? Them's only one way to find out.

#### GALAXY Sierra s. Greative Interpreter has been run

uing the firm's adventures for years now Of course, if has been refined and enhanced in the rover enema merch of progress Nevertheless, enmelody in cryocartic ausrension store playing the onginal Space of Roger Wilco If you unplugged their freezer and thawaid them out in the microwave. Perhaps the most startling dill over their hero, where they nan interact with any characters or objects located in their immediate surrounding with two clicks of pazzies can be overcome librough the leibatien el classin adverbare game commande walk, examine take talk, even smell Additionally These functions can be accessed from a sens of icones. Previously adventumes either had to type out the com meanly or use a keyboard shortnut

### MARS

Over the past low years, Shora hea ampleved a cluster of professional artists to produce attractive retractiond spriles and

hand-painted bankdrops in every adverture In the rolescoping method an artist uses video l'enfane of people movino around as a reference. Hopefully, this results in He-lexiand comic book lechniques, including vary Including of view and close-ups, are also used to beighten the tereion and Increase your level of attention. Sadly, the pixel painters at Sierra do a fer better job on the IBM PC where they can full back on the lux my of 256 huse and a larger colour palette The stuff on show in this Armpa adaptation is crude and oddly-coloured by compansor Furthermore, the display frantically lerks around when the programmers make their first ambarrassing attempts to scroll certain scanes for dramatic effect, Those notable graphical delicionnies are accompanied by a dreary soundtrack and the oncasional sool

Is this came written in Amigs BASIC of ud, in large part, of the aging 'C' much-loved by our Amendee cousins. Sadly this programming language is easy to use but can I handle speedy operations like sections. That's why titles like Wins

New

meuse, joyatick explore of disks somber of players

hard disk mostlekie. 610 MERCEN Commander 2 and Space Quest Wirequire the power of a fast PC to jurgition properly After the miserable conversions of Willy

### coders should have been contracted for SNICKERS

Seems has butt up a lovel bend of adventorers gver the years who if this release is anything to judge by, must be a bunch of .. masochists. Although it can be played from two floppy clisk drives, you definitely used a hard disk to get the most out of Space

Beamish and Heart of China, more prolicient

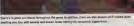
Quest IV The new version of Kinkstert can also halp get the awkward pariods of waiting I rapidly line of seeing the watch loon as other than fulfil my every whim and desire Il s just not good enough

In nomparison with earlier Space Cavis carries like is a dollinite slap backwards, both in turms of speed and gamebles Basicelly, if reuses Larry Vs control system and simply reworks new graphics and plots into it. CK, so it is obviously a good system. but it herdly offers vanety for Joe Public Additionally, I found it rather easy to die and punkly pet fed up walting for the pame to let me net back etto the tray. It's dopping in zany American humour with no style or substance, and for that fact alone, should probably be avoided. If this is all Sierra has not to offer, over my Lucasfilm every lime

# THOSE WERE THE DAYS

### SIERRA £34.99

6 Another poor conversion over from the PC ... 3 GRAPHICS 45% SOUND 40%



anneithing you, doe, with neveral well-known faces making the same



Object menipulation is very easy, and is simply a matter of highlighting like object you wish in not tret followed by what you went to do with it.



adjusted members of the "Quest" stub mass evely for agility duty on this mission. Il results rather los meny litera l'arts sant missions.

LASTABILITY PLAYABILITY **OVERALL 43%** 

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# EYE OF THE BE THE LEGEND OF DARKMOON

Not since Knightmare has a game got RPG fans in such a flurry. Steve Keen armed with anything he can get his hands on, believes that beauty is indeed, in The Eve Of The

### LONG TIME NO RPG...

Beholder...

In been over a year since we fillet menseed connection to the facilities project-playing world of \$\frac{F}{2}\$ (OT) in an and project-playing world of \$\frac{F}{2}\$ (OT) in an and potential residency and project of the first general, U.S. Gold proudy release the body-posmitid access. Here the project project is not Degreen PRO since PTL's all-time classes, Dunyoon Metaller, Eyr OT The advantage to the project project is not Degreen PRO since PTL's all-time classes, Dunyoon Metaller, Eyr OT The advantage to the project of Schotland State (State State State State State Schotland State State State Schotland State Schotland State and the State State

### THE GOOD

Emerging from the lestering sewers beneath Walerdeep, you trusty friend Khalbert, gleefully expresse his gratitude for your efforts in the first adventure, and his acstasy of the news thel you've volunteered for the next one. Things go from bad to worse when he also informs you that in a fit of extreme generosity and bind stupidity, you've doneled at the artefacts, acrolis and valuables you lought so hard to obtain under ground, to the city - did they see you coming, or what? People have been mysleriously disappearing in the North and West of the town end it's your task to find out why The first thing that strikes you

about EOB 2 is its ease of entry Although the game comes with a

large and comprehensive manual, it's easy to pick up the rudementary lunctions within minutes of exploration, and the more complex menosuvres within an hour. As with most RPGs, your final task is to generate your fool-hardy party. If you're a hardward warrios from the first expedition, you can import your saved party - minus their collected goodies, of course and use their experiance and wisdom to your advantage. If you haven't got a asyed party to hand, don't despair es a numosa-built 'Supei Party' ere included on the disk. Your party once enem consists of four members but there is also enough space to recruit two more team members

### A BETTER CLASS...

The character classes will be fare to most, but the concept of multiclass heroes may need some explanation Eye 2 not only incorporates different gendered adventure but different races as well. These fellow Earth develors have special abilities peculiar to their races and ere therefore not confined to one class. For example, an Elf has exper lant hearing, eyesight and dexterity and, eithough he could dedicate his life to being a rather spiffy fighter, he's more suited to the woys of a thief Thus incorporating hie heraditory abilities with those he has studied and added to his capabilit he can be made eligible for doubleclass status. Likewise, some races can have up to three classes depending on how many points they

carry in these ebites. A sighter needs strength, on as ereall, his strength point must be a good one if he is to heve longwely in battle Used week, these characters are extremely adaptable, and as the more light of the battle of the founding quartet, the multi-class characters can muck in by meking used objects and spellis that the others are unbelle to use

If war EOR's perfect muture of large, objects, pussess and monstern their made it suggests to be a made of the suggests to be a major of the second for the sequel Off involves, such as gaint priders and wolves are repsequently with raw when more learneone creatures aveilt the party is

resented, whilst new and even more learsome creatures swall the party in the catacombs. Such new fiends as the Basilisk - a leathery eight-legged monster, with a page that can lum a torget to stone - and the Mind Flayer which feeds on a character's psyche causing heliuonetions and possession Additionally, rether than keeping the game below ground in the onginal's dank and dark pus sages, the sequel takes us into the surrounding forests, loo, paving the way for an even wider reflection of naches and aquantences, including packs of Wolves and a werd old Lady who is searching for her lost child and will offer to help you if you ask har mostly.



### STEPPING OUT... The collected party explore in a set

patiem of a square formation, with the most guilible pairing of the front,

### SPELLING LESSONS

the of major is cardined to Clinitz, Magona and Padinic (who may sate a few of the Clinitz's spelled, Clinit



**CREATURE COMFORTS** stors to battle during the edventore

Here's a solde of what to execut Margorie - Inrecipus manicul preda Spigerpoder - hope flaming creature The Peholders - cicketar stacces of slaams with countless staring grees. Propolled by levitation they are













buyere guide

April 1002

RPG SSIWastwood Stokes (Cosing) Bick Burke. Agres Powel and Ken Olesa

(Graphica) and Pool Modro. Dwicht Okekers (Music oat) 4 Same Blake -1Party 8|sk

embers of darks

ober of players berd dick samulable termury: 150

ready to take the bruni of the oncome ing damage. Characters such as Mapes and Clerica can't wear armour, so it's best to let the mecho Paledins end Fighters occupy the Soothsayers lob their spalle and mountations from behind. If the method is used effectively this enablee the Megiclans to grow in power levels extremely quickly. The guys at the front can hack away taking all the hits and the magicians can heal them without incurring any wounds themselves - and all the time, they're collating messive experience points. To begin with, epolls era

a bil thin on the ground, but with frugel usage there should be enough to see you through to the leter, more taxing, sections where they'll reelly be resided Whenever you think you're likely

to gel into a scrape, it's wise to have all your weapons at the ready. When, battling in some RPGe, there's nothing worse than messing around with dull charts and tables, and one of Eye 2s greatest ettributes is that there's no lumbling about with such tables during combat. The solution is also a very simple one the screen is smoly designed to show most of the cheracters' details simultaneously.

Each charecter possesses a very hendy pouch/pockel, and these ere used for the storage of up to three objects. When an item currently held is dropped or discarded, the next item in the pouch automatically shifts into the player's grasp. This feature is especially useful for spell and acroll used, it cannot be seused until the party has rested, effectively leaving tha player defenseless. However, by filling the pouch with plue one deggers(e dagges which has been upgraded to cause more damage. the Scroerers can continue to fight by throwing the knives with a machine

gun-like effect. Such is the difficulty of the game, all the cherecters begin al expenence level seven, and eithough a first level spell is pretty weedy in a lesser Mage's hands, its power increases



movies solvings to the Lorde Of Waterdoon, confronts you for the final brieflow

manyfold as your experience Increases in addition, if your other hend is free, you can place another scroll or weapon in it and double your attacks per move

### MAGIC ...

Eye Of The Beholder 2 m e logical and very enjoyable, follow-up to the first game. It features extremely convincing graphics which are far and over the first game, and the sound le of equally high quality. There's nothing more shifting than hearing the footsteps of your enemy getting louder sa likey come towerde you - a parfect example of the game's claustrophobic atmosphera The enimation of your ettackers is first rate and the detail on the objects le both detailed and clear. At a ground roots level, Eye 2 is basically e larger and twesked update, feetur Ing e lerger play area end a new

scenario. However, I still challenge envone to leave this edventure before they've finished it. Eve Of The Seholder 2 is a thoroughly enjoyable and user friendly game which finally lays that sturdy old horse, Dungeon Master, to rest. They don't come much better than this, so ready for the education of a Itlalians

### US GOLD £25.98 le a loss time... **GRAPHICS**

SOUND 85% LASTABILITY 90% PLAYABILITY 919

OVERALL 92%

the bitmap brothers

x e n o n c a d a v e r



volum<u>e l</u>







### SPACE ODDYSEY

Jeng the same vewpoints and consile system as Heroquest, Gremitin we as paped in their souped-up sci-fisiouel. Set on a sense of alien steps, you and your team are given a limited surber of game turns in which to

solve the assorted missions. Although you control a team of he marines, your Commander at the most amportent and, should he be lost to battle, the mission is deemed a tokke and must be restarted, Luckly, however, the all-important Commander le far stronger and care we can prover a despending the commander of the strenger and care we man powerful weapon than the grunts – but ther's the joys of rank for you

### DICEY DOINGS

On attacking a visishle alien, the mincess of your asseut depends on how well you roll the computer-controlled doe, However, the teams weaponry must elso be taken into ecoquint - for example, a light blester will give you one throw of a light dice, whereas a heavily-ermed Commander has more prows in his tevour. The total of the brown dice is then the strangth of your attack, and any number over the armour rating of your target equale the damage caused, it's a very fair system, but the dice are very heavily loaded, with three of the six sides reading zero, end the others as one. two, and three respectively.

During a game turn, your marrias are such allocated an schon and movement point. The former ellows free to early clean to early consistency and the movement point. The former ellows free to ethick using whatever means possible, whereas a movement point moves from a specified distance around the map. Everything in the game is controlled vive a series of cons, with any currently available options it.

Once you have completed your actions, control passes to the next player of the confrouter-controlled energy. The enterty allow set this system, but with one important at the stand a sinch pass, sometimes, and the stand a sinch pass, sometime got a soft suckey allows a south suckey allows allowed the stand of sinch passes and the passes or a soft from your medines, or a soft from your medines, or a soft from your medines, which will be a soft to the soft of the suit of definers, which will be a soft of the suit of definers, which will be a soft of the suit of definers, which will be soft of the suit of definers, which will be soft of the suit of definers, which will be soft of the suit of definers, which will be soft of the suit of definers, which will be soft of the suit of t

### EXTRA DUTIES

At key points throughout each mis sion, you may recleve a radio message trom your mothership, detailing secondary objectives. For



This includes a little of the transfer of the transfer can be settled to between an increation or a plan view. Although the latter is feeler, the 20 view is graphically accellent.

you may also be celled to gradicate a lesser being, too.

One improvement over Fforoquest

One improvement over Heroquest is that Space Crusade is viewed from above on a scrolling map screen All visible ellens are marked and others appear on the map as they are spot ted Similarly, you can olso use a scanner which radiates in every







DENVERON BARA

direction, marking suspect objects as a white star on a green background. The viewpoint can also be switched to isometric 3D, but the game runs

### PLUS POINTS

Space Crusards has two man plus promiss its amoughere and its addicibitiry. Although a sulf view of the docks is given, it bent until you enter a room that you car see what you'd clearing with. This generates raid clearinghable, which, outpied with the game is marinel but effected the transchip with any of the promise promise notices and alian squeek, is a perfect eating. The game's insure ling ourse is perfect, too, with easy belief to hisponse which are it ser from publish on hisponse which are itself to the promise of the

simple to solve. Spane Crosside is a classic strasgy parm. I'm made the biggest say parm. I'm made the biggest Star Planders on the 2X Spectrum sight years ago. Having never preyor the boundparm. I can't comment, but on the have wall it has trensterred, but on the half and the second of the half and the second of the half are the second of the half are the second of the latest provide latest latest latest provide latest latest



As the Squad move on their 'Sug Hum' your or three see revealed step by eleg...



### GREWLIN 1225.99

#### An engrossing and aimo spheric masterplece...

GRAPHICS 86% SOUND 89% LASTABILITY 93% PLAYABILITY 91%

OVERALL 92%

#### buyers guida releandes http://spz

gram APG/Adventure gram APG/Adventure same in-House waterin Mouse numbers of disks:

number of players: 1-4
bord disk excelleble: No
memory. Any machine

### GOING GLOBAL

he Green movement's bandwago may have been derailed some time ago, but thei hean's stopped Millernium trying to jump on board with a Sim City-style game Ilnoed with environmental sensibilities

The type is the not-loo-distant future where global development is handed by omnicoted world controllers Your task is to develop a world's natural resources and build a thriving civilisation. Of course, it's not that simple, and each world's enclosed ecosystem is vulnerable to your industrial advances and the plundering of its mineral wealth and other natural resources. If a up to you to balance the specific economic and anymanmental concerns of your chosen planel and successfully guide vaur nitizene towerds e prosperous

The game offers three main options. You own either choose to save a world from an anvironmental calestrophe, build up a naw colony from scratch on a virgin world or become embroiled in a deadly war with a rival controller. Whichever option you plump for, the various sce

Millennium go green with their latest release, a game that involves both global conquest and green-fingered cere of the environment. Den 'Son of God' Slingsby does his best to nurture e nuclear winter...

perios ensure that you'll have your work out out to stay in power. Not only will you have to contend with netural phenomena, like earthquekes and volcanic activity, but on some worlde there's also computer-controlled adversaries who couldn't give two hoots about either yours or the plenet's good heelth.

### SAVE THE WORLD

The 'save a world' option involves four scenance. The first of these is sal amid a nuclear winter where large parts of the planst are uninhabitable, the poler ice-caps are expending towards the equator, and few people have survived. Your task is to raverse the ecological damage and

help civilization to thrive once more Whether this would be possible after e real nuclear conflagration is systremely debatable, but as this is a game wa'll let lihem gel ewey with it Other scensrios offer e post-Industrial society polsoned by its own pollutania, a world in the grip of

global warming, and enother exhausted of all its natural resources order has to be established based eround clean, green, energy-officient policies while the other two require speedy action to reverse the global rise in temperatures end to mentaln the existing civilisation at an optimum level to ensure their long-term sur

It you're more concerned for your own good fortune than that of your people, the 'rule e world' option will be more to your liking. Here, you have the option to become involved m an industrial confrontation with another controller where rampent Inclusion ligation and expansion by your rival needs to be contained and reversed, or there's the much more appealing arms-race scenario which sees both sides stockpiling nuclear erganals for an eventual military engagement Unfortunately, much of this option's appeal is muted as the environmental concerns have to be taken into conederation. By Isunch ing a first strike you may wall catch your opponent off-guard and thus win the bettle, but the war with the envi ronment will be well and truly lost

troller to develop a number of virgin worlds. It's possible to start from entainth on a fully customisable planet or choose from e number of scenarios. There are night of these each throwing up Individual environmental problems, renging from volcanic activity and frozen worlds to mineral and lossil rich planets

> Dely Boiled inform seed you plenty it's still a wordwist in seed-ment, however as it. road to affecting the







Associate Year shallened baging From the leafy numb of a natural formet, you have to salessily build up a thybring commu

rity Soler pamele and arred forms self awart be revised with oil rigs. oil electron deports, cost trace and buxtire chies

plax begins to take shape. First year's need to extraord an HO from which is sufficiently you branes, Once that's setricitated, you can then remembrate on building up a bornidable arrend Unfortunately, this is ecacily what the greeny is budy sining, test













There are night singinal worlds ripp for development, each with he own proc it seine. If you is not happy with any of them, you can always oursenies your own planet and start indising your earn face empire.

# EFFE



### GUIDE TO MAIN SCREEN

I The power gauge works so a credit rating and limits development. Construction can only take place if there is sufficient energy available.

2 The scenemic and environmental maters menitor haw well your scenetry is perferming and the degree to which your schools are affecting the planet. If both are shay, you'l gain more power.

3 This banh of icons ellew you to seve or pauce a geme gof strategie information or beain a military build-on

4 The icen bank offers 30 different ossel rucilentels. Once selected, the current isel can be pieced onto libe main screen by simply piacing the mouse oursel on screen and clicking the mouse butten.

5 The compost is see way of maving about the map Another is to drag the mouse off each side of the screen, whereupen it will sorall accordingly.

ecroes, whereupen it will serell eccedingly.

8 Decisional measures appear at the top of the screen, informing the player he worll they are deling and of ethel inspir game-relating events, such se

Giess Unject to mere at a case has the eyes easied form Earth. There are not objective for such accurate an easy legislation of the mere such experience of the mere antiporting options to the channel as regist pitched are applied to desputie to appropriate the companies of the experience of the companies of the superfulness could pitched a superfulness as a partners of the companies of the accurate facility between the companies of the companies of the companies of the superfulness of the superfu

GUNG-HO GAIA

einn causes wheeprand contamination at a large area. If may then 30% maritamination is essitte from a mortear assilict, as lottles action to the action and the action and the action in the action is a mortear assilict and the action area. The watert possible attention is a manian winter which is



### GAME ON

The main game screen consists of a endow display which offers a birdseya view of a liny section of the phanet's surface. To the last of this is an ioon selector which contains the assorted construction loofs necessary to globel menagement. Unfortunetely, only the currently selected ioon in displayed at any one selected ioon in displayed at any one

senicate took is elected at the and it is necessary to soroll meough the numerous tooks tooks to find a particular item. A much better option would have been a Sim City-style icon current but, instead, Global Effect uses away tedious dis pay, which

becomes a distinct

play the game. To

untant the more you



be law, it's possible to program the function keys to take on the different icon charactenatics, but it's still a cumbersome system

To the left of the display area are Iwo information meters which detail your economic/environmental rating en well as your power level. Arry movement or construction requires power which, In Ium, is generated by your economic performance and how well you're managing the environment To move eround the map. there's a compass to the bottom right of the screen and it's also possible to move the mouse cursor of the main screen to dictats movement, Once mensages at the top of the screen inform the player how well they're doing. For example "very good diamage", 'commendable farming coverage' and 'well organised recycling network' ere common

encouragements. Equally common.

though, era messages etailing 'your city is in need of repeir' or that 'your citizens are dying'.

### TOOLING UP

Global Effect centerily looks the business. The looks used for the different looks are all fairly struightforward and there's no real need to consult the lengthy manual to discover their function. Keep at siye out for the loon which denotes the swrage treatment.

### works - I livink I could have come up

grave Ond-sim
team Toby Company
controls Mouse

11 mbox of dishe 2 1 mbox of players 1/2 hard dash intedleller year nemery: 8 May with something better than a beaker of water and a big brown pite of somment Sound-west, there's not a lot to say, except their I'd have prelarred a mealer selection of sound effects and decent strangenheric

music

City construction servi as dealed as Sim (bit). The game is more and as Sim (bit). The game is more concerned with effects center than eletal. There's no need to haspitals or police stations as the ection lekes place primarily on a global scale. City blocks are just that — thy squares which can be linked sogether on screen to form an expanding materipopis of their looks include larming units, water is services, eccycling prints (patiently), outer generators.

malropolis Other local include laming units, water a servoira, recycling plants (naturally), actar generation plants from plants from the plants of the plants of the good of the plants of the plants of the you've got you've got you best of the via adopting coal driven power stations on the much cleaner option of nuclear power. Once you're this was expended power. Once you're this was expended

### GLOBAL EFFECT RES

to e certain limit, environmentallyirlandly recurses of power, such as wind or solar generations, become imadequate and economic forms diotate the development of more "advanced" energy sources. This is when problems start to erise and it's a complex bearining act to keep both the environment and your economy in equilibrium.

This might sound on incredibly dull idea for a game and, admittedly there are limes when things become rather routine. It can take a long time to build up a city-state and ever longer before your actions begin to have an effect on the environment. toltially, the most exciting things to happen era breakdowns in the sawage disposal system or en outbreak of dysentery, but things do start to improve the more you get into the game. There's a sense of achievement in slowly building up an embryonic city and an even better feeling once you've built up on storric ersenel and leunched an etout madean war!

### ORIGIN OF THE

Despite the pame's many good points, such as the well-thought out scenence and myrisd number of options, I couldn't help leeling that something was missing. That some Ihing happens to be one of the most important ingredients that goes into a successful game - onginality There's nothing new here except an over-zealous environmental con sclousness which casts its shadow over the entire game in a rather crude and intrusive manner. It's obvious to one where much of the inspiration has come from: Sim City is the chief point of reference, but Bulling a Populous, Gramlin's Litopie and Maxin' Sim Earth have all been ntundered for ideas. If you're going to borrow ideas quite so liberally as Global Effect has, then the final game has to be as good as if not better, then the original products Sadly, this is not the case, and I'm left bitterly disappointed with what could have been an excellent god sim bul, in reality, is more like a Green Party brondcast.

Thei's not to any there isn't any fun to be had in creating your own anyronment end carefully nurtuing it. It's just their can think of many batter games to opend my money.

### Millennium £29.99

i	Playable God-sim	which	
	lacks originality	,	
	GRAPHICS .	80%	
	SOUND	69%	
	LASTABILITY	75%	

PLAYARILMY

OVERALL 74%



North an ideal alty in the moking. The sereage rights have been membracied in label their efficient on to man, farms have been all up to leaf the populator and a set althe caller power programme put two precedes. The constal location and reserving fovest their population are right performance and disk only bedoe set to member fail, but the number of their just and connected the subarge plages to two setter apply and local closely because your year addition.



medians to preser your city, as those and compilerably less than more server-local factor of acyangy. Onli mines are very expensive and extremely environmentally-services whereas of itself and the chances of triving oil on thicky next.



Orabel maps offer a wealth of anyloparantial information ranging from temperature charts, form everage policion and excepts activity. Each chart absents assessed envirte of power, though, as it's best to use such exmens specingly in the actly steps any ping 10th part, but learness investigating important as the gave progressed.



and a water supply type all been built, six the solar generators are preving inadequal to power all the blocks occuping Mack-outs to happen. The growth of the settlement is also limited because of the netural between of the larest.

# SERIAL KILLERS By connecting another machine to your Amiga

secting another machine to your Amiga via e null medem cable; it's possible to have e head-to-hend confrontation spainst enother player. It doesn't matter

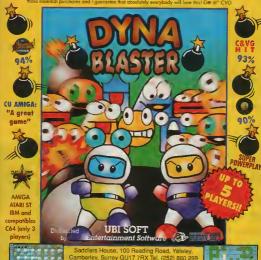
whether the second menchine is a facilitation, For a FT citized Effective the he had up to all of these and then you and a friend can work function you and a friend can work function prises. There's also an opinion to large places. There's also an opinion to large the passar via a modern, but due to the vext associate of delat transfer involved. Millimonium orient aspeared univolved to place. Existing yet in the computer approcess. These are selected properly can be selected as the computer appropriate properly and can be selected properly as passed carefully as provided in the passed carefully as provided in angelor matching, to provide our large properly as passed carefully as provided in the passed carefully as provided in the passed carefully the passed

can be set, such as the computer's econamic ambition, its speed, and its military intentions. Drittolly, it's best to use a low setting, or also you'll sconling vaccasif out-manuscred both eco-

semically and strategically

# THE CONSOLES AND ARCADES SMASH HIT NOW ON YOUR COMPUTERS!

"As far as playability is concerned, this is a dream come true. In one player made, it's a massive and addictive task, but in head to head (with up to five players), this is truly awesioned This is just one of those essential purchases and I guorantee that absolutely everybody will love this Identify CVG



Collect the icons to get more bombs and larger or programmed explosions.

ger or ions. Don't smosh the icons

Don't smosh the icons or you'll be in big trouble!

In the 5 player-mode your opponents are both your ollies and your enemies... depends on the situation!

Screen shots on Amiga

### DISC

rop's disk-jobbins sequence spawned a paries of coin-ous, but it took Loricials sight years to get it ee to the Amica Cossequently, the gamepley end presentation sow look s little old hnt. Stood at either and of a rectangular areas, tha two playam are gives a friebes-like object which res he thrown at their opponent. Directly hehied each costs tent, there are a series of bleche, which correspond to the tiles the due are standing on, and whenever a section of the wall le hit, it disappears tahing the relevant floor squere with it. is addition both players are gives a lim ited supply of energy, and if



get them, thee constant buf-feting with the disc will. Hardly taxing stuff, Disc in a nice-looking geme, but was a still doesn't warrant a buy for aight quid.

the lech of fleerspace doesn't ACTION 16 OUT NOW £7.99



### **NAVY MOVES**

or years, Spanish team, Dinamic, were femal for releasing unplayable games under the 'Moves' monicker. There were loads available: Army Moves, Army Moves II, and this, Navy Moves - luckity, by Navy, the games were actually starting to come together. Cast as a heroic aquaneut hero. Nevy Moves is a shool 'em np played over a series of scrolling stages, before mov ing into a large military complex for the second, arcade/adventure stage. As can be expected, these equatic antics lob ell menner of Squid and sub-equatic nasties of our filipper-wearing hero, and these must be shot or avoided. A treger content of creatures makes this increasingly difficult, though, And libera all there is to it, really. The base section is marginally better than the first half and features a large and detailed play area to explore, but getting to it is haw pered by the dodgy collision detection the scrolling detection suffers from it seems that Dinamic's original intention was to create a game similar in cortent to a Milk Tray advert, but too annoying factors work against it. Newy Moves is by no means complete trash, and does have something quite additive about it, but even though it's less then e third of its original price, it's still a dibious buy

HIT SQUAD OUT NOW £7.99





Steve Merrett, CU's resident skin flint, peruses the wide range of budget games set for release this month, and offers his verdict on the best buys...



### THE BITMAP BROTHERS

Ithough thrav've come Ithough thity've cor knocking recently, there's no doubting that The Bitmaps are still in a class of their own. Since their less-than-homble beginnings with Xenor, the Brimaps have redefined the shool em no end luturesport gennes with Xenon II and Speedball II respectively. This compiletion is made up of



Speedball B should need no introduction, and is quite simply the pinnacle of futnresports. Pisyed scross a three-screen-long metallic pitch, the basic elm is

to rumble the ball past your negonects' applie - using yio lance whenever necessary With all manner of bonuses and tactics also everlable. Speedball II is a gennine classic and ultra addictive Equally playable, is Cadaver, the Bitmacs first forey into the arcade/adventure carre



the first

Bitmap osme, and is still playable. The first 16-bit arcade-unality blest. Xenon is a little too hard for its own good, but is still a worthwhile play.

A stunning collection of some of the Bitmaps finest games - end if you're new to the Amiga scene, this is the periect introduction to gaming

RENEGADE OUT NOW £25.99





# SUPAPLEX

The is a rather surprise budpet release, but certainly a welcome one. Superiar was originally misseed a more five months ego,

but for some meson didn't self. Perhaps the prime reason for this air sprimitive look, with a main sprite which doubles as a Teneto, and bestground sprites which member crude user-defined characters. Even so, these dull esethatics havely mesh Supepies the tillient playability. Besically, it's a variant on the timehonogreed classic, Bouldratche, with the original's







mplaced by
Supaplea's 111
circuit beards
awaiting excavation. Your little
Tomate has been
given a set time
within which to
collect a pride
termined number
of sech beard's

Inforces, whilet avoiding any

rockfalle (ecory, Zonkfeliel) or

cluster of gem

chain-reactions et off. In addition, an assertion reaction may see of it. In addition, an assertion reaction may see of it. In addition, an assertion reaction may see a super puzzle stement to attempt the many see as super puzzle stement to attempt the many way to called actification televions to at drop the reach like Zonica on the a particular species of the reaction to remark the manes was youngeds, and Criginal It aftrit, but physicials and worthy of a lawy. Original It aftrit, but physicials and worthy of a lawy supposed certificially. And when you comider what a toward particular see a suppose certainty is. And when you comider what a toward you that it's minuses becames

ACTION 16 OUT NOW £7.99

you won't mgret it.

### AVVARD WINNERS

Getting off to the best possible start with Anco's Kick Off II, Award Winners is well supported by the their, of Populacids and Pipersonie. All three are scalefar and diverse suitage to make the completion a worthwhite buy, trom the scrade perfection of Anno's legendary looky sim and Emparts'. Pipersonia, to the devious Dottes of Populacids. What doesn't make sense, though, is think, or reamens some, though or the, to reamens some though or the time.





have also stuffed Space
Ace into the pack.
Thanistully, this hasn't initated the
pack s price, but I can't help but thluk
that the space could have been better
served. Oh well, even if you only play
Ace ouce, you're still getting an excel-

lent deal, and you'll be playing Kick Off it and Populous for years to come However, perhaps its time for a fortyquid Readysoft compilation, with their work to date bunded together.

EMPISE OUT NOW £34.99



# YOND THE ICE PALA

Chemistria Fession Than Direct guid? Sillering Ellie criginally instead dor Palece so an conflictal sequel for Silvests in Foliations, but it is every the price of the same mark. The sin mark is the sequel for silvest in Foliations or the same mark. The sin tender of the same mark is the same sequel for the same mark is the sequel for solid read control solid by the same paymer memory version can said it then't per the palecest Palecy grant study is 10% solid from the spitch sag, there's not exit persion is not Palecyte (one Recover with spitch same or bid suggests and the sail the salesy papers) and a say one Recover with spitch same or bid suggests and the sail the salesy paper single same spitch spitch spitch same single same spitch as the same spitch spitch same single same spitch spitch spitch same single same spitch as the same spitch spitch same single same spitch spitch spitch spitch spitch same spitch spitch spitch spitch same spitch spitch

POCKET POWER OUT NOW £2.99



### ESCAPE FROM THE PLANET OF

## THE ROBOT MONSTERS

Inner of 'The Longest Game Title Ever', Rebol Monstern le a spoef of coustless spacebased B-Mavies, and pits two hemic fighters against a mess of menic robots. Played scmse a series of isometric zones. the game is besically a shoot 'em up, as the two least-tofing heroes blest their way mugh the ecrolling areas. In search of an exit. Along the way, they run the risk of getting Impaled, electro cuted, and shot, all of which toon style. Although it gets a

little earney in plecse, has steed the test of time very well. And is most certainly worth its medest asking



THE NIT SOUAD OUT NOW £7.00





#### START UPD6 20 HOLMESIDE SUNDERLAND SR1 3JE 091 565 2506

### UNITED

### PUBLIC



















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EDUCATIONAL SOFTWARE

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AGATRONAVENUE

Section 1. The control of the contro

POWER-ANIMS

DEMOS







### DOMAIN

### SOFTWARE









Public Domain













BLITTERCHIPS UPD6 CLIFFE HOUSE PRIN ST KEIGHLEY BD21 49 0535 667 469





PHOENIX

RAM expansions made for the older A500 will not work with the new A500 Plus if they are populated to more than 512k. Phoenix have developed a range of RAM axpansion units specifically for the new ASOO Plus.

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The A500 Plus can only be expanded to 2 Mb of chip RAM using the trap door expansion port.

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# HELPLINE

If you're stuck on a game and don't know who to turn to for advice, then look no further. The original and best Helpline is back with yet another massive selection of game queries and desperate cries for help.

### ENQUIRIES

#### NEW ZEALAND STORY

Levet four is impossible and we dely emyone to get past the whele. We can dodge whatever it is he drops, but don't know how to delirat him. Help please! Helen Pese, Amy Nicholson, W1

### seen Pese, Amy Nicholson, Wi

LEMMINGS
Its a great pame but I can'll get past level 19 Can anyone guide me through this extremely tricky two??
Berry Ambrosa, WZ

### LEANDER

We don't want a cheat for this game just some justful edvice. We re stuck on level 1.4. Although we have retrieved the crossbow at the botten of the cave, we can't get out and are lispped down there. Any help, please?

Merc and Gavin Prette, W3.

### KULT

How can I save in germa? I get the OK message after trying but when I try to load a saved game it always talls. Eve followed all the instructions but to

### Adrian Bernascone, W4

Learnot get any further with this game. I have built signification, have seven in lighters (from signification), never seven in lighters (from signification), and the significant in lighters (from seven significant in lighters (from seven significant in lighters), and have seven se

### HERO QUEST

It's a good game, but a little frushniting is there a cheet for inlinite lives or money no to £5,000 for each of the fore playare? How about infinite spells for the Wizard and the Ell cherecters. Matthew Farrow, W6



### **HOW TO USE HELPLINE**

h's exsy. Just send in your letter, medding your sowsicps with the appropriate code number it you are sending a response or mark it "Employ" it you need some help. Post you letter to MELPLINE, COLAMIDA, PRIDRY COURT, 20 32 FARRINGOOM LAKE, LONGOM, ECTR SAU.

#### ALIEN BREED

is there an infricte lives cheef for Team 17's briliant shock 'em up? I know the level skep cheef, but it's still too herd James Kinghorn, W7



### FIRST SAMURAI This is just too difficult. Don't get me wrong, it's an

aximmely potented game but this second level has my well and truly stuck. I can collect all the special objects on the second level, but I don't know what to do next or where to go? James Klinchorn, W8

### James Kinghom, Williams MANIAC MANSION

Left have a het or to lot this sorp classic, please? I've been doop really well ntill light to the Man Earry Pitor Room. Ne walend the plint and through the paint thinner egislant file well to read the door birt i need to get through the trapdout above the plened to get into the filescope Room and cannot find a ladder snywhene! Kathy Anderson. We

### CRUISE FOR A CORPSE

I'm no John Thaw, and I'm completely stumped with this game. I've spoken to the Meximaid and lound the puice of paper with the message, but I can't get eny further. Allsteir Romd, W10

#### WINGS OF FURY it's kind of embassissing. You nee, I can't get past

The first screen of this game. Please help me!

Duncan Hughes, W11

### MAGIC POCKETS

I've noticed this game crop np in Helpline on quite a law occasions. Now I know why — it's neetly difficult. The game is a doddle np to level three. bit! after theil I can't get pest the Froga with the extra long tangues or the store-throwing Zomblea. Any hiras and tips would be greatly received. Mr A Contson, W12.

### LEISURE SUIT LARRY S

I'm a member of Monsa end have an IQ in the stratosphere, but when it comes to Seam a feliast Lerry game it bow my head in sharme I con't get a ticket, get into the VIP lonnge at the altroit, oil into the boss's office I've collected everything possible but I can't find a brochuse for the tecket.

S. Anderson, W13

### SMASH TV

Ok, so it sinct a patch on the monde version, but it's still a cracking game. Things do tend to get a bit heact though, and a cheal for inflavo leves/energy/cradits would not go armss. After all points mean pazes.

Adam Turnell, W14.

#### **4D SPORTS BOXING**

I've steedily built op my Boxer's stats, but still can't team to meice any progress. Even when I leil the computer do my lighting for me, I still take a pummelling. A cheel for increasing my state still further world be most excellent. Pobert Brevert, W15.

### INDY HEAT

Money also light to mention in this Storm conversion of the british tooln-op. Indeed, I never seem to have enough of the old models, so is there a chest for generaling fall weds of cash? A fuel or turbo cheef would be handy, too Stepon Wilson, W16



### NEW IMPROVED HELPLINE

Ther's right, from next issue Helpline is going to be supply and betier than ever halous. Not only thet, hall everyone who sends is a perce hind or sheat will receive a EREE pama from a top software company. Keep resettly the only rander hists and tipe saveline wheth between with



# small tips

If it's top tips for the top games you're after, CU Amiga is here with all the latest hints and cheats.



## FORMULA ONE GRAND

PRLX
If you can't get pole position in Microprose's Formula.
Oriel mose, hard's a cheat to lum your motoring forlunes around. Go to the pits, escape from the game
and go to accelerate inne. You should now finish the
Grand Pits in Pole Postoria.







#### TITUS THE FOX

Down a foxbole without a clue in Titus' latest platform rong? Heip is at hand as hane are the levels codes for

Lev	el Code	Level Code	Ŧ
		14 5052	
		15 3360	
		18 2045	





### OPULOUS II

If you're having troubling battling Zesus and his cronice in Builting's receilent God game, here's a cheest for maximum strength for everything. Type in: ADKITAKDVGZL-RÖWZ (no spaces) at the passwerd prompt at the beginning of each tevel and you'll be able to sky if you do with the best of them. Thanks to Adim Chapman, who hells from Middleshrough, for that now.



#### HARLEQUIN

Gremin s multi-level platformer has rather a lot of nexty surprises waiting for the inexperienced gamer. Highly's a mini hints n'tips guide to help you on your

\* Using the Space Hopper on water will allow you to skim across the surface without drowning.

\* Watch out for hidden bonuses located at the following locations:

The first Tower's clock face

The clown's noses in the Learning Curve

the House of Cardo

The trees and flowers in Cutesy Land

The pipe openings in the Organ Chember The ece of Hearts playing cards in

\* Don't stay in the straws level too long. When the timer runs out, the credit tokens despipes and sero! regenerated However, if you grob as many as you can and leave botton the timer reaches zero, when you nother that linese, all the credit botton's should be back again. By doing this two or three times you will gain an extrait linese.

"When failing long distances use the brolly power just before you hit the ground it may only save you a small amount of energy but every lette bit counts.

\*Heart pieces are located in the Rooftops, Hell, Cutesy Land and Sheet Muzak.

Most levels change in some way during the game so slways be sure there soit an ext you've missed when you pass through a level which you have visited.

 Save your game frequently as it will take a long time to complete (roughly two and a helf hours if you take the shortest route)

 Any levels which have water are bound to have a Fish power token nearby so don't venture near it without one

\* Something strange might happen should you hill the right notes in the Organ Chamber





HINTS & TIPS LINE



That's right. It's that time of the year again when we ask you, our valued readers, to pick up your pens and let us know your thoughts and opinions on Britain's fastest-growing magazine, CU Amiga.

It's been a heatic year of change and development for CU Amiga and now it's your furn to fell us what we're doing right and what we're doing wrong,

You might think that questionneires ere a waste of time and that no one's going to be interested in what you have to say. Woll, you're wrong! Each questionnoire we receive is corelatly scrutinised and each comment has a direct bearing on the future development of the magazine. This isn't a space litter - it's your chance to dictate the development of the mag over the coming 12 months.

free software! For example, you might think we don't have enough gome reviews or that we don't cover the enthusiast morket very well. It that's the case, vent your spleen and tell us about it. The dramatic changes CU has undergone in the last year were a direct result of our lest survey, so we really de liston to what you have to say,

And as an added incentive, we're also giving away more than £2,000 worth of too rated software in a special prize draw. The sendor of the first survery out of the bag will win £500-worth of software of their choice, with the next 15 runners up receiving £100-worth of top-quality utilities and games tor their Amiga. It you want to get something off your chest, now's your chance.

**HOW TO ENTER** 

Please try and anexer every question. If your stuck for no passwer to any particular quantion, simply miss it out and pa on to the next one. Most questions simply require a tick in a box, but nowe require more extensive anewers - please by and complete so much at the questionnaire as possible. You can either tear and this form so if earli it in, or a photocopy is just so ascertable. You can also so its est your answers on the back of a matching if you want, we're not picky! Once yes'se filled everything in, and it to: EU AMIGA SURVEY 1992, EMAP IMAGES, PRIORY COURT, 30-32 FAHRINGOON LAKE, FARRING-NOW, LONDON, ECTR SAID. Entries to arrive and leter thee June 1st, 1992 (Although the compostays own, for per evergenc readers settl 1st September, 1992, so we appreciate that some of you put year sepies some time after the mag has come up unio in the UK).

PORTANT: Where appropriets, please lick the relevant burgs to had ror. All information given in this quantionnoirs will be treated in the z nce and individual details will not be girm/bold to any other my

1. About You

Name

Address

		-	
-			

WINE

£2,000 worth of

Age Sex Male Famale [7]

2. What do you do for a living?

At school Further Education University/Poly Full-time work Part time work Unemployed

3. What's your income per year? £2,000 or less

£6.001-£10.000 £10,001-£15,000 £15,001-£20,000 £20,001-£25,000 £25.001-£30.000

£30,001 plus

£2,001-£6,000

### **1992 Questionnaire**

### What do you use your Amiga tor? (Tick more than one box if necessary)

	Regularly	Sometimes	Never
Music			
Graphics			
Programming			
DTP			
Games			
Word Processing			
Education			
Comms			
Business			

### 5. What type of Amiga de you ewn?

A500 (512k) A500 (1Mb) A500 Plus A1000 A1500

A2000 A3000

Amiga CDTV
Other. . . . .

### 6. In the next 12 menths, are you interested in purchasing any

ef the tellowing mechines: Amiga 600 — Amiga 4000 — Amige 570

(CO Rom driva)
7. Do yeu ewn a memery axpansien ter yeur machina?

you think this is a good idea?

# Yes L No 8. We're thinking about making our coverdisks 1Mb only. De

Yes \_ No -

9. Which of the following peripherals do you own? Intend to buy this year Own Monitor Disk Drive Hard Disk Ponter Action Replay Genlock Sound sampler Modem MIDI interface Scenner Dimbser PC Emulator Accelerator Card

### 10. How much time per week de you apend using yeur Amiga? less than 2 hours per week

2-5 hours per week 6-10 hours per week

24-Bit Graphic Card

11-15 hours per week
16-20 hours per week
Over 20 hours per week

### 11. How much money de you spend on your Amiga par month? Less than £20

Between £20-£30 £31-£40 £41-£60 £61-£100

## 12. What parcentage of your answer to quastion 11 is apont on games softwere?

25% 50% -75% 100%

More than £100

### 13. What other computer magazines de you regularly buy?

Amiga Action

Amiga Formet

Amiga Shopper

Amiga Shopper

Amiga Powar

Amiga Computing

Amiga World

Amiga World
AUI
CaVG
The One

### 14. How important is the content of a megazine's coverdisk in influencing you to buy the meg?

Not important

Occasionally influences me
Major influence

### 15. Where did you buy this copy of CU Amiga from?

Local Newsagent Subscription Chain Store Computer Store

### 16. How many other people will read this copy of CU Amiga?

1 2 2 3 51

 If there's eneithing you could change about CU Amiga to make it better, what would it be? (Please use a separate sheet of paper if there lan't enough space for your answer)

Coverdsk pages				Animetions			
Lead Feature				Utilities			
(The Ultimate				Virus Checkers			
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First Imps				25 From the follow	den Het r	please indicate how you rate	CII
Gama Raviews				Amiga's design (Ti			CO
VFM				Amga a daaign (1)			
					Yes	No	
Small Tips				Altractive			
Technical Reviews				Gives arough Info			
Buyer's				Easy to read			
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PD coverage			_	Not serious enough			
Buyer'e				Just about right			
Guide: Education							
Buyer's				26 The trice of the	CD BOH	driva is expected to be £299	
Gulde: Joysticks				Would you buy one			2.
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				Possibly	П		
HD Games				Only if it's cheaper			
Q&A				: No			
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Yes		No	L	Business software		Mice/Trackballs	
				Printers		Games	
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(If 'No', what could be	a done to in	nprove ou	r reviews?}	Bunders		T-shirts	
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				to complete thi	s auosi	ionneire. Only with yo	415
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				Jen we im		annage even better.	

23. Do you buy Public Domain software?

24. Which sort of PD are you most interested in? (Tick more

Never Occasionally

Regularly

Demos

Slideshows

Music

Games

than one if necessary)

18. How many copies of CU Amiga have you bought in the last

19. How do you rate the following sections in this month's

Very Good Fair

year?

4-6

7-9

laaua?

News



THE GENLOCK PEOPLE

Do you want to overlay computer graphics or titles onto your videos? If so, you will need a Genlock. Rendale Genlocks are built to a very high standard, and are used widely in the professional environment.

RENDALE

The Rendale range of Amiga Genlocks begins with the 8802. This is a Genlock, which, when atteched to en Amiga computer and a suitable video system, will allow you to mix video and computer graphics. It offers all the functions that you need, such as:

\* RGB feed through, allowing for a preview monitor.

\* High quality output video, which in default mode provides video with overlaid computer graphics.

It can be supplied with a device which will allow you to fade between computer graphics and the video source, and also e mode control unit so thet you can move between Amiga only, video only, background mode and foreground modes 1 & 2.

The Rendale Super-8802 is a development of the basic 8802 unif, it performs the same functions, but has the added capability of also working with Super-VHS signals. The unit will allow the user to cross tade between the Amiga and video signal. In addition, some basic wipe patterns are provided, and also a fade to black option. Mode confrol is also provided via hardware

8802 FMC Unit

This is a brand new piece of kit which will improve the capabilities of the popular Rendale 8802 Genlock. This unit allows you to cross fede between the Amiga and video signals, so that you can gently fade computer titles in and out. Also, the ability to switch between the various modes offered by the 8802 is provided. The required mode is selected by a push switch, giving smooth, flicker free transformations.

The FMC unit does need to be soldered into the 8802, we can do this at our factory of required.

UPGRADES PATHS

Rendale Genlocks ere designed to be flexible, and the ability of your Genlock to grow with your system was deemed to be of paramount importance in our design process.

As a consequence, existing 8802 users can follow one of two upgrede paths. The fade and mode control unit (FMC unit) can be purchased independently, and fitted either by yourself or our engineer. Basic soldering skills are essential for self-installation. Or, for only £3.00, our engineer will fit if for you.

The other upgrade path is the move from e purely composite 8802 to the Super-8802. This can also be done simply, atthough we do have to perform the upgrade work at our factory. We would only require your unit for around two days.



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At last, a ray-tracing package that does more than just draw pretty pictures! Mat Broomfield checks out Ray Dance's latest advances in our exclusive review.

### ENTER THE ARENA

Today's ray-tracing arens is a lively place, popul lated by the likes of Real 3D, Imagine and Sculpt 4D, all of which can create life-like 3D scanes, complete with enrmeted objects and roving cam eras. Exciting enhancements, such as lexture end bump-mapping, appear with every new release. and Rey Dance is no exception. However, to achieve these new lealures, Charles Comstock the progrem's creator, has gone nght back to basics. Hes he created a thoroughbred, or a graphical equivalent to Frankenstein's monster?

### THE DANCE BEGINS

Say Dance is a budget-priced ray-tracing package colour and a ptethora of other 'standard' options agart from other packages, including Automatic

Plant Generation (the herbicions kindl), fracial support, and a fow marriery replicate option

its greelest parti of deperture from the ray-tracing norm, though, is that it a script driven, forsaking the user-friendly mouse-controlled systems need by every peckage loday. Although superficially this system sacrifices ease-of-use, at a desper level II ectnelly increases the user's control over the finished output. An object is defined using numbers and Keywords representing vertices, planes, and file created on any standard text editor. This fext file is also used to define the scane in which your phiect (or objects) racide and the way the scene will be virtiged carriers position, lighting, etc.)

#### **OBJECTS OF DESIRE** It's in the erea of object definition that Hey Dance

demonstrates it's adventages. Because all objects

Lar greater precision can be achieved For example, if a Sculpt or Imagine, because It has eight easily-positioned vertices the positions of which can be calculated teld a penlegonal dodecahedron (a solid with I waive pentagonal teoss), and you'll soon run Into problems

With Ray Derson providing you know the requisite mathe-

metical formule, the program will calculate the rest for you. This is especially aseful when drawing curved objects which need to include a complittely accuste decree of curvainre (the supports of a suspension bridge, for materice). Consequently, this precision makes Auy Dance an ideal tool to professional and scientific users, se well as senous hobbyets who'd rather not secrifice accuracy for near-triendliness.

A number of other tools are provided to simplify object creation, too Extrude takes a two dre stonal shape and converts it into a 3D one. Although limited in its liexbridy, it's Ideal for creat lavonnie ari package lo design it, and, using Extrude, materilly convert it into a threa-dimen signal object. Lathe is handy when the neer needs In create circular objects including plates and discs. A two-dimensional cross-section of the object can be rolated eround 360 degrees to cre ate a solid object, or by less if a completely round physical isn't reginted

One of the most exciling object creation tools is the Trae lunction. This is used in the creation of realistic pients and, obviously, trees - complete with leaves it regnired. This function neas it 'growth' algorithm that lets the user specify a range of variables before the plant is created. The diams her of the frunk will effect the overall size of the Iree, and the branch height defines how spindly or bushy it will appear. By specifying the angle at which the branches grow a vanety of species can be created ranging from an over-hanging Willow, e bushy Oek, or e rockel shaped Poplar. lunny thing about this option is it's so aimple, you can'l help wandering why nobody thanght of it Moving from trees to lendscapes, and In the

pengrame depertment, Rey Dance offers two types of fractal creation. The first is the simple import or creation of fractal landscapes in much the same formet as Vista or Genesis The second is reliber more simple, and creates a venety of lendscapes based solely upon the Mandlebrol set These land to be quite simplistic in appearance when compared to the output of the former method, but, nevertheless. They re still better than





LIGHTWAVES Ray-tracing has come a long way minm the Anique world was first steehed by the Jugglas dome, which was written using on early grogram imaginatively titled The Ray Tracer. Doubits the rezzenatezz of recest years, the sed shjuntive remains fits same on it over was: to cruste scenas witinh are as realistin as eeasible, esine three isisaal objects and computer-asimilated lighting and shading. It does this by taking a specific uniat as as object in the scene, and beck-tracing every ray at light that hits that point, loking into account the serious presentias at the selet. The acc nnes is repeated for every pixel on the servers, and requires a RUGE number of calculations.

It's been used to spectachini effect in a quaha of films, including Star Trek, and is now recognised as an art form in its own right, receiting in accounted films such as Luxe Jesior, Red's Bream and The Train Why Could

Recouse of the large enrobes of frames required is create these films, even the factout Asies would take years in greate a single lan adonly section. The laks that create them non parallet granucousing systems which are affectively decens, or even inndrads of computers all lished together and working simultaneously.

the plain or chechered backgrounds theil neuelly accompany fractal pictnies

Once the outline of an object here been consist. ds realism can be enhanced further in a number of ways. To start with, it needs to be coloured, and Ray Dance allows the ertist e 24-bit palette of 16.7 million colonia (although liney re not ell visible on a normal Amiga) I particularly liked the Graduation option which allows the eddition of rainbow colours to any face of an object, rather like the cooper effects that turn np in a lot of demos

#### DO THE BUMP The Iwo most popular colouring options are the

texture and bump-mapping lacilities. Texture mapping lakes an IFF picture end expiles I to a selected object, so that the object has a picture stuck to its undataling sariece. Bump-mapping elso requires en IFF picture to operate, but rether than applying the picture directly on to an object, it takes the brightness values of the picture and converts them into pseudo-contours on the object. For example. If your picture consisted of black and while lines, the hump-mapped object would sopera to be covered in ridges and troughs. In fact, the contonrs of the object haven't been aftered at all it's simply been colonied to look like it. There are two verieties of each of these potions: wrap and project. Whereas Wrep ectually loids the picture stound the selected object. Project works rethan Ike a film projector shining the picture on to the object from a particular direction. Unlike a film pro-



jector, the image also 'shines through' to the rear bunnies and birds. When the objects hi

of the object so well - like those irritating little kids who interrupt the film with a senes of hand shebow

pased into a scene, the position and lighting style musl be selected. Font types are provided, (star, lemo, infinite and embient), much of which results in different spectecniar effects. Obviously, the scene is going to be uneless.

and that's where the Camera functions come into play. The user needs to deline from where, and

ee been progled and com

how, the scene will be viewed. The carriers can be heely moved within a scene, and the zoom mode can megnify a cartain areas it required. Even the amonni of light entering the "ens" can be attered. lighlering or darkening the end resnit.

#### RENDERED USELESS

Once everything is erranged to the user's satisfaction, all that semains is to render (draw) the picture Play Dance convey with two versions of the render ing program, one for owners of 68020/30 accelerators, and the other for owners of standard machines. The rendenng engine (as Rediance calls it) has a nice point and click interface, from which the uset can issue any commands necessary to create a picture

There are two rendering modes. Wireliams and Ray Trace: Wireframe simply draws a quick outline of the scene so that you can check its composition, but it's one of the slowest wirefrems modes i've



### let's dance

ever encounteied. Rep<sup>-</sup>Trans proditions is fullblown 24 the pitche, on an orditinely ASOO, this can take hours in craw. History, gaid filled, it seemed qu'it fast companie of other produces in vivial and compressable for the behavior. If MM middon is craelled or-scients to full you can grid an idea of how the filled history of the control of the blow the filled history of the control of the blow the filled history of the control of the blow the filled history of the control of the filled history of the control of the control of the filled history of the control of the control of the filled place and a production as the control of the filled place and a production as the control of the filled place and a production as the control of the filled place and a production as the control of the filled place and a production as the control of the filled place and a production as the control of the filled place and a production as the control of the control of the filled place and a production as the control of the control of the filled place and the control of the control of the control of the filled place and the control of the control of the control of the filled place and the control of the control of the control of the filled place and the control of the control of the control of the filled place and the control of the co

At the randering stage, there are a number of establishes – shedows, Phong shading and heze for instance – which can be loggled on or off. When awatched off, rendering larnes are greatly reduced, as is the realism of the finished result.

Two counters display the percentage left to be drawn, and the time taken so Lar Riy Cance relocution authorized the second consupports animation, and can be need to define hierarchical relationships — the extendment of one object to another so that they move as a single unit. The possesse also provided "Twocrung, whereby the near indicates certain Key Frames, and the software works out all animation in between them. This feature can then save hours of unnecessary well."

When rendering enimations, they can be started and enided at eny position within the segmence. This makes the tendering of a lew Irames et a time possible, saving much valuable nime, and is considerably more perfereble then heving to leave your computer running for hours or

SAMPLE PROGRAM. This about residing displays a gobilet that has been feature mapped in a wood and bingin mapped with wome tracts. It focus three hours 43 minutes to sende a 24-bit cofour on a stemdard ASOB is done it included that to delice for shorter of the cofolial in that is glossed of the cofolial in that is plaused of the cofolial in that is plaused organizately.

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surface(PHONG, b.3, 1 0 0 2, 4.9, 0.0, 0.0, 0.0, 0.0 0, 0.), consist humanospi "canala sitra" ), wood lectoremasi "weed libra" ).

926 (mgcil] "gobleti hin" (5,0,150) (20,35.32) 10,140,0), (1,1,1), 0 (; gok colo)[14] = tri1, 1 replace yellow gob cortace [15 bits. 1 copiace glossy If Lichtons

star) (15010, -8200, 15100) [1.0, 1.0, 1.0), 1500 ]; star) (-5020, -2000, 2000) [1.0, 0.7, 8.7] 1600 ], mbland) (0,0 16010) [10.0 0.0 3], [0.0 1], 0.0 0.0 ]; If Ground and background , background PLAM (0.65, 0.1, 0.65) ];

If Comera stull
CAMERA POS = (0 BOU 200),
CAMERA TARGET = [0 B -30]
RENGER,

This picture above how different materials, includes, and softens can transform on ordinary scie. The a pair both lanters bechare-mapped surfaces, whilet the two of the back downsorboth the varying lessels of tr parency. The enthr vanue silients the package's downsy mapping - a particularly affective system. Note that home-mapping boom's affected the object's shape, though, or can be seen with the smooth edges.





### RAY DANCE

• 3 huap Pina • Amountite free and landscape incidings • Vancey of Sextore and Fourpoissip into quitiens • Import object from other into a per driven • Recipiers re-incident into a per driven • Recipiers re-incident

### CONCLUSION

Fey Dance is an excising puckage offering manytasspare not board on other puckages filter growth, the to give a filtrated prevention, significant colored cellstrated, and the assessment of the prochages is one proc. As it's action drivers, potential and can be implically general. It is a light with the output is only in A4-bit EFF, as most users don't own a commercian program or a board capital of displaying the pictimes. An you can define objects in adaptivities than it yoult, you can create accesse position to the rivolet, you can define objects in adaptivities than it yoult, you can create accesse cation in Fey Charrolf greated strength. Althought doesn't often cannot be warred

Although it doesn't offer enough to warrant throwing your other packages awey, this is en ideal accompaniment for eny other ray-bacer on the market, and new users may want to conside. Hey Dance in preference to other, more expensive, systems.

### VERDICT

Budget priced puckage that's big on features

EASE OF USE	70
VALUE FOR MONEY	85
EFFECTIVENESS	90
FLEXIBILITY	95
INNOVATION	80

OVERALL

84%





A simple gubbet can be quickly branchemed late something magical with hay Banca's bump-suppling capabilities. First, a wood tranh is projected as to the gubbet as a feature may. The worm trail pattern is thus used in give the impression of marketure. Finally, the owe soluted in marketure in 24-40 clotter. What do you call the most superb role-playing adventure of them all?



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  arcade action.

  Superlative magic
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all.

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# SPRICKS

So you've got a burning desire to turn your Amiga into a home electronics lab, but you don't know how? Mat Broomfield makes the connection.

#### WE HAVE THE TEKNOLOGY

When you conside that most of us apone countless hours each week glued to our computers, it's furnly how fittle we know about the fundamental workings of the machine – aspectally whan you consider that, of a realty basic level, afforcit any electronic device can be reduced to just a hindful of simple components arranged in a specific way

or arripp componence arranged in a spiciality way Teknor Amage is a new product from sunny Sweden, and aims to lauch the user about simple experiments. What imake it particularly interesting, si that I includes a crount board which plage leto your computer, and allowey you to combine the electronic monitoring facilities of your Amage with the simple checulity you'll hopefully go on to design.

#### CIRCUITS ACTIVATED The essented parts of the unit are a possible inter-

The ecsence pears of the unit at ea passase wastleas which plays are the Manngale printer port, and of nite-pin D plays for commercion with the pysticic port. However, to save the movino form accidentally blowing up their Amiga as they first the system up, the parallel port contains a small isolating cut cut which will proven any unsavoury ecoclerists. In addition, the whole sort up is then highed by its two plugs by a severaleen strand ribbon coatie.

The chical board is a 68th open of biamsourned.

plates, with 26 erroads trokes shollow rise. A data when should be executed people of the supplied matel inference to be issuinted and screened own Stratefor, a led to use as they should be supplied matel inference to be issuinted and screened own Stratefor, a led to use as they should be any combinator. Also supplied are a reluction of discussion, and the supplied are a reluction of discussion. LEDs and discuss Selecting year and a supplied are a reluction of discussion. LEDs and discussion of the supplied of the should have been also should be a supplied and the should be a supplied on the should be a supplied to the should be a supplie

on the top side to play ground with.

With the board set up and ready to roll, if a time to make those first connections. Bescally, this involves the linking of fourteen of the springs with a saction of unshielded were used to creeks a cround between time or more of the springs.



can be used to monitor everything from temperature changes justing a thermal resistor to replace changes) to light manuscensor.

These are then attached to the rithing rable. They oddlets as Ida, it's still quite an entertaining of

the required connections could be made in less than fitteen minutes

ACTION STATIONS

can be a very frustreling job and the manual

makes no bones about it - In fact, it artyless the

uses to 'bile the builes' Parsonally, shough, I never

really had any problems, and found that most of

With the board out up, the experiments can begincharpy. I'm defemp to sound its Doctor Frankenshard The fits of Petro is basically a timple for the property. I want to be supported the property. The unit to supplied with unplaced offerent property. The unit to supplied with unplaced offerent property. The unit to supplied with unplaced offerent property. (see of which well play a sample described when carbon contention as made as the supplied of the when carbon contention as the supplied of the contention of all the can be stouched loggether to learn a simple digital ferrolly existent. Then off these (sempned in parks) are manufactor by the sound generate, and providates manufactor by the sound generate, and providreservatively are afforting sound in the limit has been as the carbon described by the sound generate and are sound as the carbon described as the supplied of the sound as the carbon described as the supplied of the sound as the supplied of the supplied of the sound as the supplied of the su

#### MANUAL LABOUR

them together

From that small step, It's on to greater things, whilst following the menual's step by site postructions. However, for whall is quite a complicated and novel proce of equipment, the pidgin English whill it has been converted to its a little end-whilm Step.

oddines saids, it is still quote an entoriaming road and is even better than a few Enjewh manusale it could mension. It does, however, heve an annoying habit of slapping crucial defates and other releas to parts which ere not included with the besis kill, and seem to be assuming that the use has notes kill, and seem to be assuming that the use has notes kill, and existence book they recomment you read—this exposure is the country of the

"Resistance" program and read page 2 of chapter 3 in edidino, the online section on resistions is made even more difficult because you're supposed to have alterably read The Electronic School 8 Basic book! If wouldn't be so bad if they ell least led you whate to get the books from - where all, are we talking the School seven or British Electronic School for the seven of the seven of the seven of the seven of production of the packwar?

emption aside though, the menual goas to great lengths to encourage the user to experiment on that own, even going so far as to include a titla ego-bocsting chart for you to say if you're not feeling very irraginative.

The isocond section begins a Blue Peter-style obmorstration of how to make switches using bits of cardboard and strips of Bacolott III continues by giving examples of how these can be adapted to create pressure-densitive alarm systems, theres, and ball >

## Dit alarmeter his for the Amus

Provides lots of processal coumple
 Manual not very explicit
 I deal for schools

# R BRIGHT OF C

gemes which will signal if you hit a Buill's-eye. These learn as you do' examples are very useful as they help get the crestive juices flowing, and whell the appaint for further learning - essential in a looi like this. Another nice touch is that this mathod of tulorist and expanmentation lies in with the new national ournculum, making the kit relets for younger users.

Progressing to more misresting ADDRESS BOOK topics (such as pholo-sensitive resistors which raiset according to Yearn Assignmentally the the emount of trahi falling on them), eaz as I in the hosts bit. yet mora practical applications are All years added over 40 beer suggested How about a detector Managery, who can By which tells you if someone's been rummaging around is your draw-British Dill 3, Berle 14, ers? Younger Kids thrive on the secret agent stuff, and if the topic Calotress, Bods, SLI SCI. catches their microsts then they if Disconlinely give them r

want to explore further - but don't ries to \$17550 600000 cepts are gradually introduced, and build on knowledge that's been learned from serier experiments, there is an interesting activity for edults too after all, how many times have you heard someone



Using y suize counter and the Speed program, i've possible to col-

say 'I wouldn't know one and of a computer from another?

This becomes evident in the latter parts of the manual when, using a specially extended version of Basic, the user is able to explore many binary functions including Boolean logic By connecting

sight LEDs to the board, it can essentially be configured to represent a byte of data. By inputting differant commands (in the form of Pokes), these lights can be used to show the status of usually hidden functions

All m ell. Tekno Arage reminded me of an advanced version at those home electronics kits thell you may have trakered with as a kid I was n Ittle dubious about plugging it into my Amge, but my fear was unjustified and I didn't encounter any major problems. Because the Telcho uses cheap end easily available components the package elso offers a twoloid advantage: they can be easily reginced should you damage any - and I have no doubt the wear and tear and rapid loss of compo nents will soon take its toll. Similarly, you can also buy edditional parts if you want to experiment further, and this adds to line package's stready plentiful langevity

numelar sithough it's rather a tion one!

CONCLUSION

The manual could have been written a little more clearly, but, in a strange way this vegueness forces the user to experiment, and heips reinforce the subject matter. The package seems ideal for any educational environment, such as a solved purbcularly as II lies in with the new puriculum. A selection of well-written programs enable you to monitor temperature and light changes over any period, create timers, pulse gauges, and a vanuty of other tools. If you want to fearn about electron ics, this is a very good accompaniment. But go out and buy yourself a decent book on the subject too

#### THE SOFTWARE

Takes Amiga comes with a selection of assist soft were to help you get the best onl of it, Hera's whell

Sound 1-4: Fonr programs which play a sample when a switch in activated.

Reaction A game to fest your reactions when closing five switches

Timer. A slopwetch protram

Speed: A program for calculating the opened of a moving object axing analogue or sligital inputs

Colender Aprogram shich tan be need to regniele year environment by extination lights, trippering borofar elerme, elc

Paige Counter. Counts digital and analogue alguals

Temperatrie: A routine which deeplays the temper alors yle a thermal resister. Can be used as a simple thermometer as part of achieu projects, or as part of a litermally-activated switch

Light Measures and displays the empent of light enlanns a pholo-sensitive tall. Agein, it can be ased as peri of class projects to monitor weether or sunlight Or, effernately, can be incorporated into

Resistance A neel program to lest your knowledge of registers and their values.

Yekno Besrc. A varietion on Amiga Basic which include special commends to control the Takno Amore circuits

#### VERDICT

Plenty of educational value but let down by its manual.

OVERALL	83%
INNOVATION	90%
FLEXIBILITY	95%
EFFECTIVFNESS	75%
VALUE FOR MONEY	70%
EASE OF USE	85%

OVERALL

#### THE ELECTRONICS REVOLUTION Medern day atectronics over their birth to

beervations moss by Thomas Esison in the early port of the contury. He naticed that under certain cenditions, on endinery tight built dissiayed some unusual properties. Fo some time, his observations remained unex plemed, until exectually on English physicist J.J.Thomsen came up with an explanation which tead to the development of the vector lube, also known as the valve

This newly-created device situated scientists to central electricity in ways that were hhharte undreemed of, and it was else thanks to the value that the first computers were Seveleped, in test, early computers hold the Subleus Sistinction of being the torgost see uum tube systems ever built, with ENIAC (the Electronic Numerical tetogrator and

Calculator) one of the largest, it contained a stangering 17,468 tubey, and was able to cal culate up to 5000 methemetical operations per secone, 1000 times faster than its rivels of the day

Modern day computers use solld state electronic circuitry and have floor messively minieturised to the quest ter pertability and pewar. The totast challenge to compute earfron ever a trition (e million militan) celeu lations per second. These mechines are dubbed TeraFlep super-computers

Tore-Greek for a trillion Flag-Floating Potst Osorelleni. The fastest computer in the world Intel's Teuchstone Delta, con only operate at e meesly 13.8 billion calculations per second. trealcally, in the quest far greater spend using perellet pracessers, reem-sized computers are again becoming commensiace.

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# makin' . MOVIES

The expanding world of multimedia and video applications for the Amiga has drawn a lot of software into the fray. Chris Jenkins looks at two packages trying to find their way in a confusing world.



If you have an Ample and a video convery, the assisted way in much the meat of the potential pracelling ambits a law the potential pracelling ambits and with the potential pracelling ambits. With these, the user and the pracelling ambits are the pracelling ambits and are the ambits and ambits and

buzzwerde. It's such a campiae concept

can handle multimedia presentations

whilst still managaable.

that the trich is to create software which

# TV\*SHOW & TV\*TEXT

Although there are inserpensive and assy-fusure parkages — Alternative image's Big Alfernative Society for eximple — for a more powerful combination you should check not Zimin's TY'Show and TY'Est. Originally evaluable as two separate packages, they have been bundled into an excellent ESS compilation courtery of UK distributor, Silica Systems.

Although TV"Skink, the presentation program, and TV"Fact, the fool rendering module, would appear pretty complete to a video operation new to the the Amilge, they are still a great deal simplet then, say, Coxis Presentation Moster, and the TV duo are more squarely aimed at the video production market.

Left. Even If you are simply adding captions to a vices of Authy Daris a 190th Birthday, you'll enugge unsees you Invest in a docent String package. In addition, the sevent of

Describes as the special effects added-took for gaptibles, ammenters and sounds, TP/Show is packaged in a stoud cereboard box with a spike bound mental and five dialet, one containing and sounds of the spike sound and the spike spike

disk to ensure that memory similations aren't a problem when creating more complex 'scripts'. 7V"Show is also compatible with et Arriga screen modes (including HAM, overscen and extra halfbrite).

#### **SCRIPTS**

The Edit program rurs using the ferniter system of pull-down menus and soose, and these ere integral in the creation of TV-Show's isotipts! A script consists of a stame of invente, where each event involves an object (billists a caption or a graphic), and no italization! (the way the object object appeals on an on laranship) of the way the object appeals on sound option and linely as off transition. String a load of three loggether and you have a script.—It's

sasy!
To begin a new script, select New from the
Project Monu, and give a name to the new script.
Next, move to the Create Event window, Each tool



Those is you arrow of the abborded offers but on the archived only p. 17-feet. The text concluding peri of the participe, of a of the same page of the page of the

within this area represents a conserning to a versil - carear, object, animation, and as on - you just click on the one you went, and this brings no another edit window with the necessary options for the chosen event.

The utility's many paremeters are set by typing manybers into windows, clicking on scenic, or adjust ing siders. As you build nip a series of events, you can specify whether they are to take place automatically in the final script, or of they are to the series of the

Pre Meet, Authority
option can be needle. Events can
next, Meay, Mert,
also be programmed to loop repeatable 40K. Tel 401
See 6466 Fitts DM.
One of the most impressive parts
of TV\*Shows its range of transitions. These allow you to introduce

objects on-screen in over forty different ways including hiding , directional scrolling, splitting, and appearing from beneath after objects. Unfortunately, the manual to limited in its septane

bors of these are experimentation is the key TY-Show can be cope with IFA firm formal exmation likes and if have created an animation name, asy, ORAM, they can be incorporated into you. TY-Show sociols with ease. It can elso handle sound, either by playing IFE camples or using the Anights lack to-speech noutlines. Both are needly in video production, whether it's adding namiation to captions or appropriate music and sound effects to measures. Since the corfort is needly ended, any

#### TV'SHOW/ TV' TEXT

changes to the video can be incorporated into you scriptol they can be merged or appended a Scriptified withly also mekes it easy to transfel the main file and any necessary to run it.

#### RENDERED FONTS

As a presentation editor PV-Stown a great but it doesn't have leading for the culture front of graphics or captions. This is where "PV-Tard comes in. With a terribly insidepate mere supplied, if yet a serial production in the production of IFF fortis, to consequently create captions as IFF files which am to work in TV-Stown.

TVT-fart runs in either medium (64/02/00), or high (64/04/04 intrinsection) excisions major graft control and properties of the control and an artist control and an artist control and artist control artist control and artist control ar

After positioning the test on-increasi it can be out and public, which other options allow you to squeeze, should not receive a reason suring the mouse and e see of constanter. Other options allow the robbion self-write and year factors and year factors and year factors and set option and self-write and self-point affection, such as carriered, vertical or headerman for the public of the public of the public of the public option of the public of the public option of t

The rendering and editing effects can be applied to IFF triages loaded from other sources, and this means that your selection of backgrounds

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"Show offers a good salection of Wipe offerts, her Present arter betwee eligitity more. This sprietion can seld stucheded persons in your captions and effects

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232	翻曲数	월일실패
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The speed on effect lakes to work can be adjusted, for This can then be used to synchronize with any tipelo you may be using



A useful TYTical testure is the LFF time can be imported from

and graphics is virtually nnimited. The coloni palette is also freely adjustable, and easy to adjust using the renge, swap and copy Innotonis. Yon can also control colour hue, salination and value.

#### CONCLUSION

The directack with TV Test is that it intri coloubly post of control you can't build ny systems post by your On the other-hand, with so many fents washed commenciately as in with PV, why behalf VM handwise commenciate is in with PV, why behalf VM handwise feet of the post of the programs make a powerful and creating outpoors acted to use with IV-TSP with Topforts, these two programs make a powerful and creating outpoors and minim-hostic appositance. Everyling you'll need a here, and thus less an excellent introduction to all things Vices.

#### VERDICT

Flexible and easy to use, ideal for video production and multi-media

EASE OF USE	89%
VALUE FOR MONEY	79%
EFFECTIVENESS	88%
FLEXIBILITY	87%
INNOVATION	69%

OVERALL

78%

#### **PRESENTATION** MASTER

#### **FAMILY HISTORT**

rom Oxxl comes Iron grams, it certainly shows the experience and knowledge of its programmers - however, this is at the expense of allenating the new year

At £200. It's nimed at the gro or semi-gro m ket where time is money. Just reading the package's enormous 200-page paperback menual could take days, and Installing the program is a marathon task

Presentation Master includes a full featured object-onenled paint program, a 3D titling and text-rendering module, the ability to create business charts, and e side-type presentation function (although it doesn't support audio functions). It operates using 24-bit internal colour files - but it's gulta happy to accept IFF graphics from aimost any source - end it can guiput in the PostScript language used by laser pnniers, typesetting machines and other professional systems.



The importing of files in extremely almple, us is the exiscism of the aloca year wish to store or retrieve.



As well as for home use, the business uses for such packages are soldless — and very impressive.

#### INSTALLATION

The program comes on twelve claks, all gl which are iam-oucked with modules, lonts, backgroun and dip ert. You need at least 2Mb to run Presentation Master, bul you don't need all the tutorial routines, lonts, and graphic files installed simultanequaly - II you do II takes up 11Mbl Unless you enjoy endless amounts of disk-swee ping and long warts, don't even think about using

the program without a hard drive A special Installation 'script utility allows you to configure the program for your system and install to to your hard disk. However, all the data has to be decompressed, and this can take hours if you Install the whole shebeng. Once installed, your problems are only starting. Despite the manual's Index and glossary, it's pretty unweldy - the installation procedure, for instance, isn't documented until the appendices, and the "lest startup" chapter le ectually a long exposition of practically every facility of the program, rether then the quick demo you's hope for Despite this, though, it will teach

you virtually sverything you need to know Presentation Master's basic working unit is the 'slide' There are four different types of slide empty, black, picture/animation and layered - and several befault layouts combining text and pictures. although you dun also design your own layouts.

#### LAY IT ON ME

The most flexible slide is the layered type. This combines lest and graphics in windows, shidally bounded by dividing lines and marked by handles Each window - and there can be up to 50 - is known as a Layer, and on activation via the menu is can be edited. Comprehensive text processing functions allow the entering and editing of Text in any Layer, and a moveable function box left you such effects as stalic, bold, and centernin, ASCII Text can also be imported.

Once you have selected the first side others can be selected relevent manus. As an example, ber chart, for Instance. This time you want to work In a graphics window, so a graphics toolbox is automatically opened

# PRESENTATION MASTER



#### BOXING CLEVER

ol delaufi bar, area end pre charts templates.

The graphics locibox offers all the usual painting ne of lines, polygons, fills, and zooms and uses a 256-colour palette featuring 16 basic colours with the rest 'Dithered'. PM offers e family

There are also options for vertical, horizontal, float Ind or parellal bericherts, and for other pie charts. PM's third area of expertren is in object-oriented nting. In addition to the bitmap tents, it can also handle IFF or EPS (Encapsulated Postscript) Images, IFF animations and PolyText Ionts. Thes are a special class of object which our be entered like lext, and manipulated like oraphice. The Paint Object menu lets you add shadowing, extrusions edomo, fills, rounded edoes and other effects, and d's possible to completely redefine the shape of lettenng or, using the pent functions, twist it into 3-D shapes. In addition, the coloure and size cen also be altered before saving them for use in your

#### ON WITH THE SHOW

Shows are created using the Sirtle Sorter window. This draplays your selection of slides in a 'rack'and These can be played or edited by circking on the relevant button. Between alidas, you can also select a range of transitional effects including nine directional wipes, twelve styles of scrolling, and nina block-reveal patterned affects. The apend of transitions is adjustable, and it's also possible to create airdeshows where a Paranti ADDRESS ROOK

alide has severel Children. The oppositor can then change in which order racks of slides are shown by selecting them with the keyboard It's also possible to deline hotspots on the screen so that circlent on a particular area selects the next slide or sense shown. The possibilities for

2010 148 uitimadia applications are obvious, 081 543 3500 Presentation Master shows car be vulcanised - that is, saved in a stand alone form with all necessary graphics files Thase vulcanised shows can be played without the

East Road, Price F188 program itself, but, of course can I be edited

Precisies

Dietribution

Foot Name

Industrial Estate

#### CONCLUSION

Unfortunately, I have to end by saying that Presentation Mester is a very powerful and flexible package, but is probably too complex, unlihendly and unraliable to be worth recommanding. The package belfied me several times by relusing to load graphros files for no epparent reason - and exemining the manuel threw up no clues either 15 elso crashed for no recognisable reason when I tried to perform simple tasks - moving from the sibe preview display back to the slide sort window, for example. It's not surprising that, with 11Mb of date to handle the odd problem should area, but it's disappointing that a program this professions. Is not better armir-trapped



OVERALL



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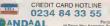
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You are standing is a neadow, by as ald wooden shack. The dear is eleming, and no one is in eight.

The tuterial selventers supplied to very playable as wall as a perfect example of the ins and outs of the Vasionery system if a reminiscent of the glaids advantures, but onjoyable

#### VISION ON

If you've ever tried writing end coding an adventure game I'm sure you'll understand the horrendous ditriculties involved. Il you've never even tried (which probably indicates a more sensible elice of the population) for feet that your brain may explode\_now's your chance There is still a certain amount of sweet, though,

Vaccousty allows you to write either a lest-only text-graphic hybrid or graphic only edventuce, using e'system rether like a high-level program ming lenguage it you've used C or Assembler, you'll know all about Source lifes. Compling and linking if you haven't, you're about to undergo your first programming edventure

#### **ROOM TO MANOEUVRE**

anget its many feetures. Visionary offers up to 65,000 rooms and 65 000 objects to be created enough to suit most people's needs. In edition, up to 4000 million characters of text ere available to the user (roughly 50 telephone directories), and the peckage can make tull use of IFF sound and graphics it all sounds too good to be true

Of course it is. If you were to elternot an advenlure with 65,000 locations you would end up with more than 2 million lines of code. Slightly unrealisto - so let's acknowledge that small is beaufitul, end be happy with a slightly more modest first erfverbure

#### IN THE BOX

Visionary comes complete with two disks (a program disk and a geophic adventure demo) and a 160-page menual, a third of which is taken up with the coding to: an example game. A further menuel is supplied in the term of a Programmer's Hendbook which comes with a third, seperate disk containing a full graphic-text edventure. This sec ond manual covers the actual game design and

lors, the menuels are very long and bonng - by the time you've got to the end, you'll have forgotten anything you learnt at the start. The only way to really tend out what it's all about is to sump straight in. This is made easier with the listing for a simple edventure supplied in the first manual. By having a

quick look at it and viewing the general levour you can see what your code should look like

adventure is to have a good idea of what you're aging to do. Once you have the basic idea (number of rooms, what you can do, etc) it's oil to your text editor for some nomes with a unable (?) text adhor called ED, but a word-processor can elso be used it you preter Any WP will do, as long as it allows lext to be saved in ASCII

the ertistic type, don't despois -Atternstively, you could go for final a trient who is Visionary's own editor VIE - the ellows you to select graphics elements using the mouse and rapidly deline your advanture map in on environment much like an ordinary paint program. This is an absolute must if you intend writing a serious Dungeon Meater style adventure

coding, while the first magual is more of a tulorial

IFF-Y GRAPHICS Visionery ellows the note no to 25 graphic screens in memory era supported, Including HAM Imogeo, Within RAM limits these Imeges can be imported gome Craeling your own groptics can be a time-conseming took and your finished adventure. will depend heavily on how good an editi you are it you re not

#### Visionery uses a system of special files to keep all

SECRET CODING

the source code organized, end to keep Individual flies from becoming large and unmanageable There are five classes of source files, the tirst of which is the Adventure file which is the most importent and easiest to write. This basically provides the system with key information such as the names of the other files, the password, varieble names, and which room the player will begin the adventure in. There's only one adventure file per game, but any number of the other related files The password is a neel idea.

which ellowe you to protect you program end prevent enyone from looking through your source code for a few hints

The other four plasses of file era Room, Object, Subroutine and Vocabluary, Once you've written the basic edventure file your next job is to define your Room file Each room must have any poseible exits defined, afond with the necessary sound effects and object information. Following this It's time to sat up the areas on the screen which can be ullised by the mouse. Again, this le telriv straightforward: simply place all your objects, both

movesbie end immobile, and give the room a description. In the tutonel advanture supplied, this takes soughly 40 lines of code, and the process must be repeated for every location

Once the rooms era set up, the game a objects

must be defined, and this involves giving each an initial location and a bnel description. You must also give each object a senes of possible uses. and a set of object nynonyms which the player can use 'Sand', for example, might also be referred to as 'dirt', 'the ground' or 'the floor', as well as by its proper name. The only drawback here is that for a large adventure with a lot of objects you are going to have an awful lot of code. This is only to be expected, but restricting the number of objects might not be a bad idea. However, an unfortunate side-effect of this is theil incredibly hade edventures may be out of the question unless them is

some brive-hearted Tolstoy blood in you There are a vanety of tasks which must also be performed at the beginning of any game, such as loading in your nice graphics, edding sound effects

MONESS BOOK urs militarara cooks II. It with the bandmek certing as additional

game's opening lext, or defining click zones. To make this source code eesiiii lo find end deel with, it can be but in a a subroutice called StartUp. which is only called for once. The THE RE APPLICATE PROF Subvoutine file is a special section of Penning Sintribution. the code which performs key func-Grof House, East Bood tions, and can be called fro Industrial Entyle, East anywhere in the adventure. This Int. London, SWIR TAR. mekes il easy to perform a particular

function repealedly - movement inputs, clearing the screen, redrawing the screen, or printing text, for exemple. The final file - the Vocabulary file - defines all the nonstandard phrases, words, and special functions. In the lutodel the load, save end help sections on sisc stored hare

The coding in fairly niraightforward, if a little long-winded, and the screen's layout makes it enuy to follow and use. A good structuring of your adventure's code is essential, as you will often come back to rework your code during the course of development, and a little linguish at the start could save you many extra hours of code-scouring

#### COMPILER TIME

Once you have completed your code, it's time to visit the Compiler. The Compiler is simple to indiale and is reasonably lest end transletes the Visionary command language to machine-readable code in the process the source code flies will be encoded using the password from the adventure Ille This then prevents anybody from nooing off the nice graphics and sounds you've created

**BUG HUNTING** Compitation complete your adventure in ready to e little workle testing. Like any other form of programming, debugging is the process of having the computer help you search for errors in your source code. Visionary's debugger utility DBUG, ellows the user to develop, play, and roof out any bugs and errors in your adventure. The biggest asset of the system, though, in that it allows you to hunt them whilst actually playing your game. Instead of crashing, halting, or otherwise misbehaving, when the debugger runs across a problem or bug in your source code diellows you to look at the source of the trouble, and even provides additional Information to eid you in the correction of the error While the debugger program is running, com-

Left Another acrees from the Dorgoon gave areke is animated, allook alouty on a statedard Arriga. States Mon node, this time from 1 steps a Care ISION

mands can also be said to the program for greater control of the debugging process. Easy-to-use commands are enlested in the text interface of the game, just en the game text commends would be

#### MISSING LINK

The finel stage to adventure stardom is the Linker. which missiculously transforms all those long rights and binding headeches into the Irral executable format - hopefully e pleyable game

There are several ways in which your code can be linked to speed your game up, but it will depend on the size of your edventure. The final output of Visiogery will be a single file - The base size of your game program will be approximately 200k plus your other liven which in the case of the tuto rtal took a lurther 40K. Be sure thel, before you link your final game, that you have enough disk space for the output file. Your adventure may be a lot larger than the turorish

#### CONCLUSION

Visionary has excellent potential if you're willing to spend a large amount of time and affort creating

MED-ICATION As with the graphics, econd in very important to the overall effect of the advanture Visionary allows you to have up to 25 sound samples in memory at any given time. Theoretically, you could play complete pections of sampled mosts in this way, but the cost in manuary terms would be prohibitive. A more sensible alteractive is to use MED, which Visiously fully suggests. Sound attacks can help to built almosphere in you game. Doors slamming, ghonish lengther, dictall acreame, even the monotonous kum of a computes or a chip's engine all heighten the player a appraciation of the game. You should decide assily on in your game development process just how many samples you are willing to use, since this will delarm me how many disks your name is norm to occupy. Kees in mind that incessed disk access will bother the player. though. Dace egain, if you're not a grant composer, get some help with the rossic and sound effects

your own edventure. On the downside, the overall speed and response time leaves egmething to be desired. There's a nice disclarmer at the start of the

manual, which says the publishers take no responsibility for the quality and performance of the finished adventure. How good the game in depends on the plot and ideas, not on who con verts the concept to a runnable program - so white they are beneally saying is that, if your adventure isn't quite the epic you'd originally hoped for, don't blame them! It's totally down to yourself

Visionary does make adventures easier to pro gram, but even the most expenenced Visionaries will need a lot of time and affort to come up with anything like Dungeon Master or Eye Of The Beholder, It certainly makes you appreciate all the Isne and effort commercial programment put into They games and makes the inflated enking prices of such games e bit more paletable to bear

#### VERDICT

Adventure creating kit which is the best presently available

EASE OF USE	80%
VALUE FOR MONEY	90%
EFFECTIVENESS	70%
FLEXIBILITY	95%
NNOVATION	99%

OVERALL

87%

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idth it may look professioned, but it he Andge Depth serve was invocked out in just built at hour After drawing the board and please using Operint, I aimply placed them all an access, ready for investigation to the game,



It's back to basics, as Tony Dillon gets to grips with Europress's 'Baby' version of their classic AMOS programming language...

#### EASY AS 1,2,3... As a practising BASIC program

In Present Liamed Lat Mill Secretary Selvery Ltd.

M. 1000

As a practising BASIC programmer it's no wonder presiding AMOS within these halllowed pages. For people like rine, it offers programming power which is lize reside to use them BASIC. But whell if you're one of the pages who wants to learn to program, but doesn't know where to start? AMOS, with its 500 commands can be to start? AMOS, with its 500 commands can be very introduting for the novice and gives no real encharage in enconraging early progress. Realising this, Enropress have been busy on this new, L-plate' version — Easty AMOS.

In bent, Easy AMOS is a cut-down version of the original package, with a lot more support for the programming novice. Help screens and manus along with an excellently-winder and presented menual, provide most of the required answers to any problems encountered in the early stages of programming, and should see most people well on their way to success. AMOS was originally designed as a triendly interface between the user and the Amiga, and

offered easy eccess to the machine's hardware capabilities, without all the usual tedious mucking about with assemblers. An edeption of the old Beginner's All-purpose Symbolic Instruction Code (BASIC) language AMOS nees straightforward English commands that do exactly as they say and can be set out in a simple, logical format. The formel was an immense success, making AMOS second only to DPavit 2 as best-selling Amiga non-games software, and has currently sold over 45,000 cooles in the UK. Even though it provided the beginner with a complete, easy lengings with which to start creating, it didn't give any pointers as to what the budding Andrew Breybrook or Archer McClean could actually do with their new found skills - rather in the same way that comprehensive schools teach you a whole bunch of useful Franch phrases, but you have to wait notif A-Level standard before you learn how to hold a basic conversation, Easy AMOS is the A-lavel feacher, and teaches you not only how to program but also goes some way into aiding noderstanding

#### of how to implement your knowledge MANUAL LABOUR

The first thing you notice annippening the box is the hefty 400-page manual. Flicking through this, it becomes apparent just how well everything is presented and explained. No facet of using the package is ignored, whether it's how to load and mstall the program, or edvanced games creation techniques. Everything is eccomparied by easy-toenter examples and full descriptions of how each command can be used. To add a fun element to the mannel, in the corner of every page is a small picture, and these act as frames from a flick book and when skimmed through follow the birth of the Easy AMOS, and follow its rapid aging process. Also scattered through the mannel are a collection of amnuing misonotes from such inminuries as Groucho Marx, Martin Luther King and Michael Stipe. These make the manual a delight to read.





Azyune remember into ane? Chopither uses a vary nimply acrebia technique obiah mesmo a antal window over a large acrees, giving the impression of menument.



even to the more expenenced programme Next comes the installation program, a langthy process which involves copying and unpacking the Easy AMOS files from the two master disks end dumping them on to three blank floppies. It's impossible to run Easy AMOS from the master disks, and this ensures that the disks can't be damaged by accidental use. The installation procass takes about twenty five minutes, but is the only delay before diving straight in and trying your

first program. Al first glance, Easy AMOS beens a huge resemblance to the original AMOS - the only initial difference being the different screen colours. On closes inspection, there are several notable changes. For a start, the program greets you per sonally, the name entered during the installation process. Also, there are a few changes to the menu bar at the top of the screen. Options such as Help. Tutor and Bob Makes are now included - the first two options are the core of Easy AMOS. The Help option is provided as a more useful reference tool than constantly picking through the manual. Entering a command in the main adil window and than accessing this option gives an instant descrip

#### ADDRESS BOOK Face 46605 retails

tion of the command, and describes exactly what it does and how to use it. Similarly, the Tutor option takes for £14.99 and is you to the lest/tutor screen, which is aepitable frum unique to Easy AMOS. The elm of turneron this is to help you examine Easy Sattware, Sureps AMOS programs, and find out exactly

Names Aditation how they work end whel they do Laid Park, Mikiplewilold out as four screen windows, the futor BK10 ARP allows you to run a program using one of three speeds and check, test debug, or simply welch a currently-initialised pro-

gram. The window in the top-right corner is a strunk version of the main program screen, in this you can welch the program running with a reduced display if the current screen is in low resolution, or es part of a screen if it is in any other formel

#### ICON HELP

next window is the Icon window, positioned to the left of the shrunken screen. All icons necessary to run the program era shows here, and you can scroll around the screen and mark any specific parts of your program you wish to exemine All these windows are accessed via the mouse, and to run the program, simply click on one of the three speed icons. The first moves the program onto the next instruction, whilst the next runs the program all half speed, and the lest running it of full speed. It can be stopped by clicking on a stop soon.

Below this ere two lext windows, one for the current program's line, and the other for relevant information. This could be enything from letting you that the line does nothing (as in a REM statement), To telling you which branch of a conditional procedura cell the program is going to joing to, as well as informing the user of the current status of any accessed variables.

As far as I am concerned, the Totol idea is a stroke of gensus on the part of AMOS codes. Francos Lignet, It's a huge slid to someone learn ing programming, and gives lihem a chance to

UPGRADING Existing AMOS owners can get hold of a copy of Excy AMOS for a many £14.59 — olthough narroly anyone familiar with the original is unlikely to want to take what is affectively a retrograde size. Simply pend year original AMGS program disk with a chaque/postal order payable to Europeon Selliware to: Easy AMGS offer, Cardamer Services. Europeas Software Ltd. Europa House. Adlinaton Park, Macciasticalé, EK19 4NP, Similaric, Essy AMOS owners can appraés to AMOS for only E19,99.

M. however, you are an AMCOS curren and world like fantaine like the fator screen, but don't want a copy of Easy AMOS. then AMOS 2, correctly billied as AMOS Professional is acheening to hill the streets of the ead of the year. This superevaluation will be setting the setting to the setting with the misting till engaged with good a top property and the misting the setting to the setting the setting the setting till the setting the setting till the setting tilll





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AMOS VS EASY AMOS  Out, so Easy AMOS is a soft-down service of AMOS, but what exactly are the differences between the two?			
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	Astroctor language	Yee, AMAL	81
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anderstand why certain routines are written in a specific way. Once that understanding is grasped. the ert of programming becomes much more

#### CONCLUSION

Don't be fooled into thinking Eney AMOS makes programming an easy process. You've still got to put a lot in to get a lot out. Easy AMOS basically egnips the novice with all the loois you need. The rest is down to you Easy AMOS is an nitra-thendly package which can teach virtually anyone the fundamentals of programming. This it does brillarilly, and forms one of the strongest packages I have

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EASE OF USE	96%
VALUE FOR MONEY	88%
EFFECTIVENESS	89%
FLEXIBILITY	95%
INNOVATION	92%

OVERALL

93%

# FOOTBALL TACTICIAN

the ever bothered with the all-important STRATEGY which is successful menager to mester both before a match when deciding on agued selection, and during the such when high-drums, met-time decisions must be made on tactics, substitutions. curses and player deployment. And now for the first time on any major computer I I I S CHIED FOOTBALL TACTICIAN

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well a scores of other slow-motion offerings which are written in basic). That up to enty two users can play this game at the same time that accurate records are not on all 440 players in the linat division, right down to their exact market valuation. her a built-in editor allows you to change any player a or manager's name you will selve the this is no ordinary soccer manager THIS is the REAL THING. You're in erge You manage your ade before and d e match Nothing is left to chance you rise to like challenge? Try FOOTBALL TACTICIAN and propare I for the ultimate football experience.

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# Tenters Buyer's Guine Buyer's

Choosing the right bubblejet printer is a difficult task. John Mallinson is here to help you make that all important purchasing choice.

#### HOW WE SELECTED THE PRINTERS

ng a printer these stays can be a pretty contubdiair; there are so many types to cooper from

from dot mastic to timbolejet, dailey when to therthel transfer—and when you add to find the hope versely of leatures on offer and the vest differences to prices. The not supprising that many observes don't seen a

The printers wa've selected are divided into three price bends. These are brased on the manufacturise's Plecommonded Flotal Prices and see inhanced as a rough comparative guide. Hyos shop around, you old.

**BUDGET PRINTERS — UNDER £400** 



Three of these machines are built around the same Canon print mechanism, and one is based on the HP DeskJet. They are all priced under £400 and can be considered basic models, but nonetheless reliable ones. Next month we'll take a look at more expensive models.

# bubble



#### Canon BJ 1 Oex The 'original' Bubblejet still gives value-for-money

When it was released in 1990 the BU10s was the first really high-quality portable printer and it hasn't been besten yet. The 10ex (with Epono LQ compatibility) went on sate this year. A modified version of the original, it uses a 64-nozzle print head which produces 360 data ser linch (data).

Neal, steek, and circenty designed, it is just row. At zero on the context before, so it is easily into a believe see it is context before, so it is easily into a believe see it is only operate to revised the apparation of the property of

You can run the machine from the external listenformer which comes with the prefat, or born the (optional) rechargeable bathery pack which the internetly Battery lits a good for about 40 sheets after a 10-hour chatge. There ne'll live push-buttom on the lond to control paper positioning, print qualtry, and size Some there have been soft functions, so it can be confused page out which set is open. No – of lew more indicated temps would halp here. The prints has be been evaluation modes. From The prints has been evaluation modes. Cannot Rubbleid (BJ) and Epson LQ and with the former you can select atther Cannot a IBM compatibility. The prints words well in either mode, but there are supprised differences – expecially when you cannot be print gasphics. You make print mode charages and versuce deliver advised with IDP exchanges and versuce deliver advised with IDP exchanges and versus deliver advised print prints prints and the law modes. The control of IPP and IDP and I

The two cont qualities. High Quality and

Economy, are produced of the same rate, but he second uses issue. But they see good obsering and sighing part. There are hos bash in typefaces but displace part. There are hos bash in typefaces but have been seen as the second of the second

The print quality is excellent. To the naked eye it looks aimost pudiessones, and it's only with a magnifying glass that you can set the character outlines are a lattle irregular. Geophics puriling and OTP output in Epson mode are disappointing; here, BJ mode is distinctly superior in speed and creative.

The is an amazing little machine, especially when you remember that a couple of years ego of dol matrix printer with much inferior print would have good about the same.

# The first of its kind and still not surpassed'

DESIGN	95%
CONSTRUCTION	78%
EASE OF USE	77%
PRINT QUALITY	80%
SPEED	61%
FLEXIBILITY	64%
D. LETTILLETT CO. LE	1 COV

OVERALL 75%

VALUE FOR MONEY



good arough for sortil-scale DTP work, 8's too slow for major pro-

Canon BJ10
Roman char
Sans serif
Draft mode
Italics, b
Outlined

The Canon SUIDer produces good quality Courier and Enneed type faces, unalistinguished propertional Nones: Adequate for latters protectly not enough variety for longer reports.

#### SMALL PRI

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SQLADS/TRANSFER MARKET In a 3 squal system (I st nout squad, reserve squad

SKHAS All players have a balance of 5 skells (so "skell levels") which you must develop WHAT IS DEFFIRENT ABOUT THIS GAME?

measure of year trues and your most mights source of trans, alove with the hell, grappes elected to E1.V1905 ONE The best just get bester! All springes that have been made so Devision One 17 over the last six months. In addition

the much scenes has assected, repression main safe quee moser changes. An odit program and a mangal has been expanded and the packaging ampr EDIT PROGRAM, Edu the team and nigrous that make Scottalt Laugue, Nepula Laugue, European League. German/Soumath/French/Indian\_mic..etc. Or even wall

CLSTOMISATION PROGRAM Concesse the 45 scoo starting squad. Use your new feverante players, o

part and ninory, formations court styles. Build your strain less Divinion One 13 remarkers the success transportent place. You can encounted so the facilist. Exper-

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CONSTRUCTION	86%
EASE OF USE	85%
PRINT QUALITY	88%
SPEED	60%
FLEXIBILITY	61%
INSTRUCTIONS	59%
VALUE FOR MONEY	93%

OVERALL 75%

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# Brother HJ100i Can a younger brother outperform its elder?

The a discolatility the latter macroine as the recognition of the control of the

Canon's 136 (useful for spreadsheeth)
As you might expect, overall print quality and
speed are exactly the same as the BJ10's. The
manual is obviously based on Canon's but fe differently artishout and asser to trade.

# Brother H. Roman char Sans seri Draft mode Italics, | Outlined Shadowad

The Breiter HJ1000's Courier and Sensett focus are Identical to 1



The HJ100's graphics are excellent and are includinguishable from the BJ10ex

# hubble bubble



#### VERDICT

Let down by poor graphics print ing, otherwise excellent'

DESIGN	80%
CONSTRUCTION	82%
EASE OF USE	81%
PRINT QUALITY	84%
SPEED	61%
FLEXIBILITY	56%
INSTRUCTIONS	78%
VALUE FOR MONEY	92%

OVERALL

70%

# Star SJ48 Roman char Helvetica Draft mode Italics, I Outlined

The Ster SJ45 offers of province to the SU(000).



The SUBFIX graphod and STF perrocus are cooperating cooperating in the other two Dance-type manifelds, they were slow with clogge up gray tunds.

# Star SJ48 The Kings of the dot matrix enter the Bubbleiet arena...

All printers may well have been created equal. With the SL4B being off another re-working of the SL10 tharms, but Star bes given the SL4B is stigntly offer and copring pained and a pater shade of grey. The reachine was the only one supplied with a sheal feeder, which allow worked with on the Cannon and Brother. The lender is easy to fit and remove and has a not in the pain. So they have been an active to the pain of the pained of have been applied to the pained of pained of the shear shear the pained of pained of pained pained of pained paine

but if in well worth the £54 optional extra list. Something feel will ridiffly your helr, though, is the odd decision on Star's pair not to give the \$3.46 a Cenon Bubbleget mode in setal of just lives Epison LO or lists emulsions. This is fine when printing text, but the Epison 24 pin graphus printing is slow and the results send as good as the BJ.

made on the other machines.

The Star's manual is comprehensible though—which will come as a relief to anyone buying a pretter for the first time who wants to just plug it is and get going.

# Blue moon . . .

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solour, graphicatest import, load/save/print complaint

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# hubble bubble



The Courier can be used in either portreil oi lendscape grientation but only all one size (12 point), the other two can be printed at 6 or 12 There is one slot which accepts

partis for extra fonts, memory, or edded empletions Another more assential extra is a cut sheet feeder which holds 70 sheets and fits under the machine - unlorlynetely several orgent calls to Italy didn't get one for us to test The Oliveth's HP emulsion makes it work with any Amiga application that has a Dask lel or

Laser, let printes drives. In its heat quality printing mode it's slightly slower than the other three in our budget group. but has a useful dreft mode which is much faster When printing from First Word there was a 30 sec and delay before anything happened. This did not

occus with Protext, so il must be a printer driver problem Easy to use, despite the clumpy single sheet leeding errangements, this printer is very compact and one). Don't be out off by its rather doll external

Olivetti J Courier Times Roma Letter Gothi Draft mode Italic,

a page it's still a bill slow for the office



#### Olivetti JP150 An alternative look can

be deceptive... Onite e different mechane from the others in this group. If you sawed the print trays and control panel off an HP DeskJet you would end no with the JP150 - e slightly over sized grey shoe box based

on the HP print engine The too of the box opens up and extends to form a pages rest. The front fleps down to make a rather inedequate shell for loading single sheets which yon poke in through a slot. As with the Canon. BJ300 there's only a single paper guide here so it's feirly easy to put the paper in crooked

The machine seems very ninderpowered in terms of bells, whiches and flashing lights with only a power switch and three control buttons. Bul just wait until you look Inside. There, in a row across the mechine, are 33 (count 'em) selectors - ell much bigger and easier to use then other printers DIP switches which they replace. My Initial reaction was one of horror, but on second thoughts this errangement actuelly makes the printer simples to nse than most There is a least on to have lots of buttons and flashing lights on printers nowedays (as on hi-li systems), but many of them ere nanec essary, and may insl confuse the user.

The JP150 has three typefaces. Conner, Times Nordic, and Letter Gothic (Sansenf) which are

## VERDICI

appearance.

Definitely the best of the budget printers we tested'

DESIGN	84%
CONSTRUCTION	89%
EASE OF USE	82%
PRINT QUALITY	80%
SPEED	79%
FLEXIBILITY	82%
INSTRUCTIONS	83%
VALUE FOR MONEY	95%

OVERALL 80%

#### **GROUP SUMMARY**

None of these four are heavy-duty printers, nor are they fast: they're excellent for letters end so on, but not really designed for long print runs or lengthy documents. You will find print quality good enough for small volume DTP work.

option, you can explain a si marcan moon, and acid more funts. Although one that gazelics printing is at 300, rather than 380, dpl the quality is see good as fron the others, although output is slower.

# hubble bubble

## Comparison Table:

At the end of the day how do the ten bubblejets compare?					
Printer	Canon BJ10ex	Brother HJ100i	Star SJ48	Olivetti	
Size in cm (h,w,d)	4.75, 31, 21.6	4.75, 31, 21.6	4,75, 31, 21.6	11.5, 34.2, 14.7	
Weight (kg)	1.8	1.8	1.8	29	
Resolution	360dpi	360dpi	360dpi	300dpi	
Memory	37K	37K	37K	8K	
Emulation 1	EP, I, C	EP, I, C	EP, I	HP, EPX', I'	
Typefaces	4	4	4	3	
Paper Feed2	SS, SF*	SS, SF*	SS, SF*	SS, SF*	
Interface3	Р	P	P	Р	
Memory Cards	N/A	N/A	N/A	128/256K	
Font Cards	N/A	N/A	N/A	15	
Speed (CPS)4	83	83	83	80/160	
A4 Text Page	1'23"	1'21"	1'22"	1'06" /44"	
DTP Page	3'35"	3'15"	7'47"	4'09"	
Graphic	1'04"	1'05"	1'14"	1'03"	
* Optional extra					

- 1 HP=Hewlett-Pickerd Deck.lett.nraclet, EPi-Epson LO, EPX-Epson FX, I-IBM Proprinter, C-Carron Bubblejet
- 2 SS-single sheets SF-sheet leader, TR-tractor
- 3 Plansiell, S(ensi), L(ocaltsk) 4 Manufacturers' rating

# **How does a Bubblejet work?**

Bubblejet and dot matrix printers (DMP's) both produce copy as a series of very small dots on the page. A DMP does this by firing needles from the printer head at the paper through a ribbon, the Bubblejet by spitting out minute ink droplets...

The story goes that a scientist in Canon's labs in the early 70s touched a hypodernic needle with a solder ing iron and noticed that ink spiritered out of the needle 15 years later, this led to the first thermal

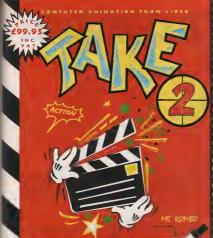
Bubbleirt printers The print head has a vertical row of up to 54 noz zies, each liner then a human hair, fed from an ink reservoir. In the wall of each nozzle is a meistor which heats up to 300-400°C when a pulse of electricity is sent to it. The ink vaponses (1) to form small bubbles which mergis into a larger one (2,3), and set up a pressure wave that forces a blob of ink but of the end of the nazzle (3,4,5). The vapour bubble contracts as It cools and more trik is sucked from the reservoir into the nozzle. This cycle can repeal itself about 4 000 times a second with no moving parts to slow thangs up. Compared to older Bubblejel printers, this thermal Bubbleier technique (called 'Bubblejer' by Canon) is faster and much more precise. Most machines have a single unit which contains both the ink reservor and

print head, so both get replaced at the same time Bubbleist manufacturers used to make claims such as "Laser proter quality at dot matrix price". I haven't seen that written for a while which is probably because it's not true. The print quality of these machines is very good indeed, but not as line or sharp as on a depent laser. The print resolution (number of data per ench) may be the same or higher than on most laser printers, but the dot size is larger and the

adges of characters or lines are slightly rougher Inicets used to need special paper. They don't these days, although it's still worth experimenting with differ ent weights and surfaces.



ing Buisision. . . Henr B Buishisjet Works





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SEND A CITIZEN COLOUR CATALOGUE

Steve Keen takes another exhaustive look at the latest PD releases and sorts the wheat from the chaff. If it isn't reviewed here, then it's not worth buying. . .

#### COLOURS

Davis' letest fractal enmation runs at the incredible apped of 50 pictures for every two frames of movement. Il retaily is an



impressive sight, especially with the swirly kaleidoscopio/psychedelio oplours they ye used. The deme is not just confined to swirly pictures though, as it also incorporates rainbow coloured landscapes, built up stage-by-stage running down the screen. The result is a luturistic when world that's

beauty. Original, entertaining



## LEMMINGOIDS

arcade game Lemmingoids is the result at a splicing between two of the most popular computer games in history. Lemmings and Asteroids. The more traditional spacecraft associated with the old bleck and white arrade classic has been realisted by an umbrolle end the gigantic rocks by huge Lummings that explode into smaller versions every time you shool them until they disappear in a puff of smoke. All the humorous speech and sound samples have been retained from the original Lemmings puzzler and the game includes a one or two-player option. The biggest bonus is the ability to load in different sories when you get bored at the green-haired imos. There are night to choose from, including Friday The 13th horror apriles and computers, and, just like their rodent counterparts, the additional graphics also breek down into smaller versions Rether then stay the same, though, the compulers break up Inla power-packs, mice monitors and leads whits! Jeson's ski mask moorporates exes chain-saws, knives and syeballs. Unfortunately, it's 1 Mb only, but enyone who has the memory is

advised to part with their cash pronto. Disk No; Lemmingoids Available from: G. E. Robin, 45 Weller Drive, Camberley, Surrey, GU15 2YA. Price: E1.25 (including P&P)



#### THE BOUNCER

music domo Crank sampling team, Cybordine, have made a strange choice for their letest track. Their computer disk version of Kicks Like A Male masical debal 'The Boancer' talks to set the silicon world elight To sive them credit, they have made some ettempt at remising the original stitly and come on with se adequate vareion of a mind numbingly sire song. Stell, we take encouragement from the fact that muhicinh bonnours are finally being portrayed in their tree light at last. Sorry Cybersine, but your song's not on the play-list!

Olek me: 1717 Available from 17 Oct 1st Figor Offices, 2/8 Markel Street, WataRate, WF1 10H Price \$1 50 (Including P&F) Tel. 0824 355982



## **MEGA MIX**

music deme H.I.T.S. Music Deino 12. A strangi name for a atrance disk subject, namely Michael Jackson This is a three-disk mix of some of Michael's most famous songs. Some of the tracks squested into the code include 'Smooth Criminal", "Thriffer" and "Black and White" All the sample were produced by Andy Gibson and are fairly clear, but each song only passes through the left channel However, an extra disk drive is mendalory II you're to bear the whole track uninterrupted. Not bad if you're a Disk on MC12 Available from: H LT 8 19 Hiller

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### PUBLIC DOMAIN?

QUADRIX PUZZIO 9 C PO O
Yet mose AMOS games this month and we keek of wish one of the best. (Avadrar is an excelliest example of what's capable with the games creating tool. The object of the game is to empty a square playing field of various blocks by pairing Ihmm with like cabes that come into the arens wa gaps in the four walls. Bricks that are not coupled gather logistim in the centre to form a big block which can be menoswered and sorolled around with the joystick in order to make the pairing easier. You have five lives which deplate as the time runs out. Every brace



you complete a level, the group of blocks in the middle change their formation adding to the frustration. The presentation and in-game graphics are based around an Egyptian Throws and the blocks represent some form of hierophyphic or ste mental supp

Ocadrix is a highly professional and entertaining effect that if instantly appeal to puzzle freaks. As fair as we are awain this is Geoffrey Sparks, an Australian programmer's first game. And if this is engining to judge his future gaming creations by there's going to be a lot more to come. Alexey Pubetnov welch your back? Disk no 1732 Available from:17 Bit 1st Floor Offices, 2/8 Market Street, Wakefield, WF1 1DH Price: £1.50 (including P&P) Tel: 0924 366982





Eric Schwartz is recognised as one of the detinative Arrage curtoon animators. In this month's free enimetion supplement we guide you through his best animetion to date, A Day at the Bauch Bul for now, just to whet your runi work. AVW 2 is the sequel to the popular 1990 flick, Amy vs. Walker In the first demo-Amy simply chased a ministure Walker, fromthe film The Empire Strikes Back, around on Armge II was short, but a significant example of what End can do This lettest opus is very different and is more film like. The lucklass Amy is seni diving for cover in a huge metalik monster's fool comes crashing down right riext to have in a fit of enger she menages to sledle Walker Iries to move and tumbles over, but doesn't give up the fight. It emits one last lesse barrage before Arry sources for cover

Disk no:1684A&S Available from: 17 Bit 1et Floor Offices, 205 Market Street, Wakelield WF1 1DH Price: £1 50 (Including P&P) Tel: 0924 366982





#### DIGITAL DISCO 2

doesn't break down any barriers in terms of origi naity, but this lunes are almed at a more relaxed

tracks Disk no: 2400 & 2401 #vallable from: FDSoft, 1 Essex SS1 27D Ing P&P) Tel.0702 46652

#### DRAGONLORD

Bragoniard have put together a brilliant collection o seven at the greatest games to have graced the home computer world. Mone are spectacetally polished in the emphasia has been firmly placed upon game-play The seven names include are Satzzians, Asteroids, Missile Commené, Galega, Silmo Line, Bally/Zolyx and of course, the Geneless Space Invaders. It yen've always mount to get ap pidlas compilation, get this one. Bellyo the emmeries and wade in the nostalgie of ntassin video name bezvon. Disk 10:1724 Applishin frau:17 Bit 1st Floor

Offices, 2/6 Market Street, Wakefield, WF1 10H Price: \$1.50 (Including PA.F) Tel: 8824 386882



#### RAVE HARD music doma

Mica Meeter return to the hip competer

meets scene with a sample aptly entitled Rave Hard, because thet's exectly what their disk does. The tune will eppeal to those of you with a limited enderstanding of chord and note structure and matching IQs. If you're terned on ky this mosetesous drivel yes deserve this disk, but it did eathing for me. The comple was put together by John Hodgsoe and is not the best example of his work. A faketter restitioe of 'musek' can be fosed se his other disk No Screechin' Woman. Repatitive music persists, but it is rescued from mediscrity by some weird and wonderfel sempled speech that will keep the syellds opes

Disk no: Nava Nard \$vallable from: NBS 132 Quavilla Road, Newport, Isla of Wight, PO30 5LN Prios: £1.75 [Including PAP] Tal: 0983 529594



## IT'S A FINE DAY

1XX Price \$1.58 per fisk (including P&P) Tel \$524 366983

mesic deme Those overworked brothers-in-arms. The Two Torsis, have two new sampled disks out this month. As excallent as even, then first is a cover of Opus liffs 'h's a Fine Day', with an approprietely dreamy scene for you to peruse whilst the sonics wash over you. However, the real star is their version of the Army O

Lovers "Obsession" track. Even if you hate the group's camp imploits you can't fail to be impressed by the Toms" quel ity. There's no one in the music sampling world who comes ploss Disk no 1725A-8 (N's g Fine ), 1725A, 54C (December) Arallabie from: 97 80 1st Finer Offices, Westfield, WF1





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JUNE issue of CU Arriga are necessary to enter

#### OUESTIONS

Please answer the following multiple choice questions and keep your answers safe until next month's selection

Eric Schwartz, famous for his Anti-Lemmings
 Demo and assorted animations, lives in which
 country?

A. England. B. Denmark.

C. USA.

2. What is PD software?

A. Free software, placed in the Public Domain, with the copyright remaining with the original author.

B. I've no idea, but let me win the competition anyway because I'm such an imbecile.

C. Incredibly expensive software that no one in their right mind would buy.

Easy, eh? Keep your coupon and answers safe until next month, when you'll be able to enter our great 1,000 disk giveaway.

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the second part of this competition. ...

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#### GARFIELD

slidoshav Own up! Who still buys the Daily Express just to



ing aver 40 different randitions of the grange 'orror. The drawings are in black and white and almost identical in style to the Jim Devis originals, suggesting theil they are most delinitely copied from his comto book strips. If yourn a lan. I've me, you won't want to mass this excellent disk. Personallies cannot be bought, but they can be drawn?

Disk no: 1723 Available from:17 Bil, 1st Floor Off 2/8 Market Street, Wakefield, WF1 10H Price £1.50 (Including P&P) Tel: 0924 366652



#### **AGATRON SLIDESHOW** sildoshow There are two things that get the CU PD office bricks

excited. One is the enrical of a new Eric Schwartz demo and the other to loading up the letest offering from PD diard. Tobias Righter. The German mension has come up with yell enother impressive slideshow of upcoming animations, this time featuring graphic screens based on the Star Wers Inlogy of films. There

are more than 12 ray-traced pictures at the venous mod els used in the movine with appropriate sterocaped backgrounds. The collection is presented with M Richter's usual quality and is solt into these sections The Empire The Alliance and Action. All the memo rable space craft are represented ranging from the Alkance's X-Winne In the Empire's Tie-Fighters. There are no filters here and although the pictures are static they are so dynamic that they seem to thrust of The screen Every post looks as though if hee been lifted from a fitn stilt and even though Tobias covers the craft in extreme detail be ofways leaves up wenting more Fantastic stuff Disk no: \$018 Available from: Prodisc PD, 61 Middleton Hell, Kinsa Norton, Birmingkem, 530 1AG Price

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# PD SCENE

### **ASSASSINS VOLUME 20**

smell collection of everego PD games, thore's e mormuliply everylime you hil them with your laser and creep from the centre of the circle until they escape from geme and rivels Elemetron for best shoot 'em Disk no. 1749 Available from, 17 Bit. 1al Figor Offices, 23 Market Street Wakefield WE1 1DH Fries £1.50 (including P&P) Tal: 0524 366882



**PETER'S QUEST** 

In the early days, games magazines got more

ensulaus conneming Maza's conversion from the Nictendo to the Amige than anything otse. Although

that'll almost definitely never happen (except for the

upcoming educational software from Mindscape)

there are still plenty of games out there that oppose

close. Peter's Goest is one such game and although

platfarm game

### **CRAZY SUE**

platform game

Yet another hybrid gents samks pelo the PD circuit. At tiret dance Crazy Suc looks like a cross between Marie honse armed cely with a jolkece intent on everthrowing an evil wizard's rule. On her joneray, it's necessary to luvel through the manster intested forest before getting In the Sane's custle on the other side of the wood. The detail provided throughout would not look out all place to n commercial game selease. See woodles along like a loddler with his goldee pasy-tail flagging in the wind behind her and, whee loeched, her some transforms into an arrowl to that up to begiven. The moneture are not characteriess either. They potsate and indulate in ae atmospheric manner whilst others speed onto the screen in whirling dervish Tasmanlan Devil fashion, suddenly Treating to reveal their true identities. Each level necess tales localing a key to preceed and contains moltiple goints, noins and pink-ups. The game is only let down by the lemble time, but you really can't alloud to miss this

Dials no: 2172 Available from Virus From PG 22 Elberguelt Street, Swinkers, \$42.21 S Price, 62.00 (lectables P&P) Tel 1793 512321



#### the game-play ditiers significantly it certainly took the business Background scenery blocks and animals included in the world could all have been tifted from the nonsole adventures. Even the main spilte, Peter, wears identifict overalls to those of the Italian plumber However, this is where the similarities end, as most of the horo's functions are not nearly as floid or compre hensive. Peter minst retrieve as many hearts and noins from "Marin I and" as possible so that he can secret his guidtuend of the end at the 20-layer would The come can be found inside certain blocks, but instead of being released by a quick bonk with the head, they must be focated by omention down and searching manually Cottected coins can buy certain opodies tom an end-of-level mens: These range in price and usethines, and some of the gifts available include jet packs, suchs lives and super litmos. Althoroth factors The supreb quality of the Mano series of games, this is great value tor money and tremendous frin til a little more attention had been paid to the main spatio's

manouverability and collision delection this could have been the best PD game for years. All is not lost, though, as there have been at least form revisions of the pame already and hopefully the American pro grammer, David Meny, will go back and bon out these problems and come no with a true classic Disk ee: 2396 Available from: POSeh 1 Bryant Avecus

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#### PD TOP TEN Animetion S-Sound U-Utility G-Gome M-Miscellencous

- 1 Amy et the Moviee II A
- 2 Amy ve Welker II A 3 Smeah Telly! G
- 4 A Dey at the Beach A 5 Lammingolda G 6 Crazy Sue G
  - 7 Shemen Remix S 8 Coloure M 9 Quedrix G

10 Dragonlord G Complied by CU Amira



# PD SCENE



#### **REAL THINGS**

Real Things is a collection of dishs providing pre-drawn enimetions of professional quality. They include animale, people and objects expressly for use in demos and any other application you sare to put together end see fit to exploit the software with. Hare we have a few examples of the kind of thing you can expect to find on the full-priced product. A few horses callup and troi through forestry and pools of water. Pretty eccemplished stuff all things cor eldered and the beeste are very lifelihe. However, they only last a couple of esc onds before they loop. Unless you're going to make use of the softwere by bringing them into your own demos there's not reuch paint in owning this, or indeed the commercial package aither. Oleh no: 1775 17 Sit, 1st floor Offices, 2/5 Market Street, Wahefleld, West Yorkshire, WF1 1DH Price: £1.50 (Including F+F) (Tel:0924 366982)



#### **VIKING SAGA**

cf em o It's the 'Strangest Dereo Of The Month' award tiree, and this is about as strange as they get. Viking Sags con-

cerns, not surprisingly, an surprisingly, an safty sagment of history from the noreastic warfor trihe, and tells of how they came to rest on our shores. With a reluture of animation and text, the quality of the deeme wavere between the highly effectiva



and the
axtremely leedequate. However, it's
presented with a cartain Celtic charm
and, although short, won't disgreca
anyone's collection.
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#### putting together a collection of pictures by Buan Bolland, Bulan's work is well known to comic book fans who ve tollowed his career from early works as Fentasy Unimited, Britain's first comic fan magazins. However his first contact with fame came when he joined the 2000 AD team to 1 a4. 1 draw the manic futuristic cop, Judge Oread. He's now so popular that he rarely has time to scribble a complete strin and tills his time diswing covers. from such diverse oddlums as album covers and Time Out magaize Most will have seen his classic cover for the Batman/Joker comic book povet. The Killing Joke and is included on the disk. All the pictures are digi lised and allhough they are not particularly fine examples of the process, or indeed Bolland's work, they was rank more ettention than many other comic shdeshows I could mention Diek:Bolland 17 Bit, 1st floor Offices, 28 Market Street, Wekefield, West Yorkshire, WF1 fDH Price: \$1,50 (Including P&P) (Tel:0924 368982)



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#### SHERLOCK

DOCUMENT ANALYSER

Like its legendary namenake, Sherlock is going to become renowned for its deductive powers. Simply by giving the package two documents to exemine, it can determine whether they were written by the same person lester than Holmes could say 'Elementary'. The way the program works is to use a given document for companson and for the user to load other 'mystery' documents into the machine. After this has been done, the machine will creek and grown for a few seconds, before channing away for a while comparing letters within the two documents. After a while, it will produce a number - the 'Difference Index' - and the line lower this



mystery document was written by the same enthor II works by splitting

is, the more

Okaly it is

that the

the documents into pairs of letters, and comparing how often certain painings are repealed. As most of us have an individual style and grammer when writing, letter pairs occur at different insquancies in on: work, and it's this individuality that enables Sherlock to come up with accurate results.

The larger the text file, the more accurate the resnits, and to increase the occuracy lurther, disputed documents can be compared against a number of control files. Michael Cax, Sherlock's programmer, says thei the process is even more



courate when parformed using letter triplicates, but the required text lile would have to be so large that if would be impractical. As it is, he engoests text files of all least 10K be used to produce meaninofal results. Shedock runs from CLL and luses a single command with two ergnments which represent the names of the control and dispnise files. Using it to process two documents totaling ronably 80K look a little under five minutes, all the end of which I was presented with a three-digs number.

In an all new, greatlyexpanded PD Utilities section, Mat Broomfield brings you an in-depth look at the latest mouth watering goodies to his the Public Domain scene.

On running several examples of my work as the control documents comparing them to other peoples' work resulted in numbers in the mid-200s However, comparisons of my stuff generated range ber s everaging 150 - so it eeems that the program

Unless you're plenning to be a secret agent, this program doesn't have much practical use, but it's certainly interesting to fool around with! Incidentally, also on the same disk is World Databank, a map-drawing utility which will draw you a map of enywhere in the world, at any magnification, complete with national borders and major rivers Simply enter the required longitude letilude and zoom factor, and II II do the rest autometically. Unfortunately, you cannot print out the results, and the amount of detail doesn't increase with the megnification, but it's an interest ing program nevertheless:

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seniations of real molecules. Over the past hundred years, Scientists have come to realise that creeting a visual representation of complex malecules and can greatly aid their noderstanding of the interaction between its different elements. At first, these molecules were created by joining plastic balls together with sticks but the edveral of powerful graphic workstations meanl that

Tecky scenanos aside il can elso generale repre

compute generated could be ago ity created end ere much easier to then they plastic cont MOG

allows the prestion of protein and organic the would-be Space

Commende with e nnmber of basic bniding blocks to do so in 'create mode

molecules MOC's Melecules can be memberated within the 3D apace. In addition, it can also create a ere shown as convoluted book undertanging of how they work. wire-frame structures, the vertices of which morevertex you can find out the specific amino acid used at that point. Bonds our also be created or broken, to create new molecule

Once a molecule has been defined it can be trealy rotated across any plane, or altered in size. if you're happy with its aspect, you can then create a ray-traced or simple representation, which can be saved as an IFF agreen Unfortunately, as the is just a preview version, the randering options holdeelh eand avec

For most people, this will do nothing more than



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ICON CREATION PACKAGES

To many people, scope are nothing more than the exall pictures they donk le-click on to load a gome or stillty. To the rest of no, however, they can be things of beauty for al least interest), and are worthy of more attention then

they get. As anyone who has used it can lell you, Workbench's icon adito: la extramely primitive. Luckity, though, a namber of ellernatives are supplied on this diek, all of which are guaranteed to make from creation a more

emigyable process The most useful program on the disk to called John Maker, and II allows the meation of an inen from any

BPaint brush - or vice versa - although it's in the larmer cagenity that h's most useful. Before drawing on icon, a reference palette naing the

desirad Workbench colours must be seved. This is then lunded into BPaint in medium revolution, theraby setting the working enlaurs. Once you've drawn on Image, it's then saved so a bresh, which is loaded treck isto icon Maker It elso effers the nhenne to specify the type and name of the scon that's to be created before performing the necessary Conversi For these with can't he helbered to creeke their own

icune, duzane oi ready-made once ere elso supplied. They cover all icon styles, and include many of the most popular images, including disks and brushes - in fact, It's one of the most complete from collections yet to appear. Iconiser, another pregram on the disk, is useful in exentirely different way, so il cresies inone to: 0:0000 this may not seem particularly naetol, but it raelly comes into its own when applied in the extira numberis

ol a directory or disk Accorder is simplicity itself to use, click once on the lenniuse lenn, and twice on that of the directory or disk to be keenledd The wastam will seen the selected directory, and ank-directories, and addicons to any Illes that don't have one. This is extremely useful as It sermits seersions (such as pooving, dejoling, etc.), pp.

lites without having to record to CLI or Shell (conject is also accompanied by a none immentary monram called De-lennices which has the suncelle elfact of the mester program.



ne which don't have any. When dealing with individual illes,

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#### **PRINT UTILITIES**

HANDY PRINTER TOOLS

Despite their widespread use printers probably cause Amigs owners more problems then eny other hardware All first, they seem deceptively simple, but getting them to confours to your Amiga can be a real beachcho. This disk attempts to remedy some of the most obser-encountered annes.

The hist requirement before any printing, is a compatible provider drives. If you own a main stream pinter. But is no problem, but if you own one of the more obscurs Hewlett Packard or Canon machines, you'll find 4 diffault to trace a suitable driver Included on this disk are drivers for the HP Deskjet Plue, the Deskjet C and the Canon PJ\$080, which should stop you

pics looking like Picesso on acid as they and out

For the traditionalists among you, there's an extra little program called Typewriter At hret plence, most people would say Why would I want my printer to simulate a typewnter?!", but as the author suggests, there are occurrences when the stone establish than a standard printer. When

program's narring lell of the keyboard functions - Tab ins feed, space, sic - act upon the printer immediately This is ideal when printing envelopes and other one-off into which will need visual positioning of the characters

chums out lengthy lext files. Spooler is the answer you've been wiiding for it allows the user to set up a RAM or disk cache where onel jobs em sont. The program then autometically reads and processes the jobs

For anyone who hates walking while the printer

Installation is quite straightforward yie the CLI, and involves: the copying of a selection of hies to your printing disk, slong with modifications to both the startup-sequence and the mount-list. The program works adequately especially when using the RAM disk as a cache, but as h only intercapts lext-output to PRT, it doesn't actually speed up the printing of graphics or DTP pages - still, you can't have everlything Finally, there are two complimentary programs called Control and Poster, Once activated, these produce

small scan-controlled windows which are designed to multi-task with word processors and text editors Clicken on the various nadoets, the line and form fixeds, plich changes print modes and other options can be changed. When you consider how liddly making small adjustments can be, you if find the en essential utilityand it will prove especially useful for owners of printers which require these functions to be altered using extremely hard-to-get-at DIP switches. It's certainly became a firm favoures with me.

Experts in mentify throught-forward way; place if one place of leed as a indeed (leed consection), and a social obstice lead, and it office because in which common periodic working the lead of security shows it is not not because it is to be a second of the lead of the

Controll and Printer are two handy programs for changing your printer's specifications to out the need for fleiding with the escape gades of DIP at

DISK ID: 1F1Z PRICE, the per disk, P&F 50o ter less then 5 disks. AVAILABLE FROM: 17 Bit Settwers, 1st Floor Ottices, 2/8 Merket Street, Wakefield, West Yorkshire, WF1 108 TELEPHONE, 0924 366962

### **SNOOPDOS**

#### FILE TRACER

You've just sport three days assembling the uitsmale collection of programs on a single disk, taking care to make use of every last byte of disk space. Everything runs perfectly except the last program. It seems to need additional files, but which ones? The program isn't giving any clues. Welcome to the disk compiler's right mare! If you'd owned a copy of SneepDOS though, you could have checked what files were maulred before you started ...

Many DOS programs, utilities especially. make routing calls upon different parts of the Amige's Operating System in the course of loadmg. If these calls are interrupted, perhaps because a file is missing mis-located, like program is likely to fast SnoopDOS is an Ingenious program that monitors almost all such calls, and



Here's what SnoopDOS procluses when leading OFAtht. All hand there's what adopptics promising amon requiring Linking. An for-tion calls are indicated, making it very say to trace potential pophiems. By using a system of cartinuous trips uponise its s surfy warming availant



Disk compitation to an executed technique to studen if you are to optimize your floppy spece. As a result, SponpDCd is the perfect guine to the insides of your dieles

outputs a constent update of what's happening. By noting these details, you can be larry sure of including all essential files when you move progrems from one disk to another

The program is run from CLI and has ten optional parameters, to monitor specific types of system call, such as Execute or Open Operations, in its default made, SnoopDOS Intercepts all system function calls except the

lock command and anything written in BC PL (which il can't handle). Output from the program can be redirected to the printer or e file on disk if e permanent record is required.

This program is suitable for anyone with a moderate grasp of AmigaDOS, and it bound to be worth its weight in gold

#### DISK ID- SUT174

PRICE: 10s per disk. P&P 50s for any size order. AVAILABLE FROM: Suberts Smith OTP, 190 Foliaden Way, Lauden, MW11 GJE. TELEPHONE : 881 455 1626



#### **D-PAINT FONTS 2&3** SCREEN FONTS FOR ART PACKAGES

If you've ever longed for a font which was a bill out of the ordinary, these disks are the boned lor. Each disk contains loaded into DPaint or anything similar To use them, simply load them into a spare screen, cul them out one letter of a time, and I ransplant them onto

Disk two contains a variety of plain class: cell lonts which are all verieties of traditional Ivoelaces - Helvetica, Times, Cal culator, Olde Foolish atc. Disk three conterns a stunning collection of full-polous fortis which eve messages. Most of the fonts appear to have been influenced by lantasy artist. Roger Deen and one or two of them are direct copies of his work. There are some ordinery

MULTIPLAYER MUSIC MODULE PLAYER Music lovers will be interested

to hear about the latest module replay routine called Multiplayer. As its name suggests, it can replay modulas created by all the major music packages including MED, Soundtracker, Future Composer, TFMX, and many others.

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'album' raplaying numarous mod

utes without the need for user

from CLI or Workbanch, it's aas

interaction. It's avan ARaxx

compatible! Operated either

ily the most sowerful player

available. Check it out!

It can also handla

PDUTILITIES pologied stylishly and are anything but boring if you want to give your work a giolessional finishing louch, disk three is an shabilite must whilst the first two are of



far to that used by Atred for use in pic large and very guedy - but serialny extramely effective

#### DISK ID: D-PAINT FONTS 2 & 3 PRICE: 1-9 Bisks are 1.25 each, 10+ Disks will cost you 980 each.

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TELEPHONE: 0268 412845



## Some things were worth waiting for ...

## **HiSoft Devpac 3**

Devpac Version 3 is here at last. The two earlier versions of HiSoft Devpac for the Amiga set a standard in 68000 assembly language programming which was hard to hill, from the editor through to the debugger; in fact so many features have been assembly language development system on the Amiga - for now

#### The Editor

programs. The editor makes use or

#### The Assembler

and has a tremeudous oumber of



#### The Debugger

Devpac 3 is provided with a versalile

Deceme 3 comes complete with all the necessary

## HighSpeed Pascal

Al list, a new Pascal compiler for your Amaga, HighSpeed Pascal, Compiling at close to

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Histolicand Proced comes complete with





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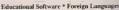
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2901 PC EMULATOR DEMO (P)

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1908 NAPOLEONIC WAPFAPE BYSTEM \* (F) — ear game umple
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# SCHOTHOUGH

Education software is a strange beast. As their varied sub-games are played, can a child really learn anything from them? In the first of a regular series, Pat Winstanley takes a look at the many English Language Tutors currently available.

#### EDUCATION IN PD

The educational solveors model: New that for excellengemes, is obtacled into these main sections by price. At one and of the scale law time 200-200 pockages with big, colourful boxes, at the other are Public Domain titles within come as a bear did to 16-20-3 and now beginning to compute for the middle ground is a range of solvener bousses of litting products in small the 100 mans. What's the difference is the packages to make such a widel variation in costs to put, the consumer?

Full-price games are now being treated as serious product by large software houses and given the glossy promotion we see in the likes of Magic Story Book and the Denny series. Both these titles justify their prices due to the depth and solerit of programming in the correct not set that houses.

PO producers however are niko improving themproducts, one factor have been give a substitutility of AMCS which allower one-strade tiled to be progerment by similar improves to an accupitate quality and depth. As the central for advantage improves, produced and advantage of the factor of the contraction of the contraction of the factor of the contraction of the third many of the fact prices products on the market are that many of the fact prices price and the market are resembled select after prices both smallly the customer more and at the same time satisfy the new of the product. This is the best of the modifier and

For new, though, PD is sentimetally in two ways — as a taken to see what kind of program appeals to a particular that is not to the program appeals to a particular this and to increase the reapy the think has to choose from Merry PD educational titles are produced by hobbysis programmens using AMOS Taucheas and purrolls programming in this in spars time have assolitent opportunities to involve children in the crossive process, something larger achievant houses cannot alward to.

and you respect your displict or farcy graphics from DV this part days are not be displanment. Which you will find, though, it is wealth of exclusionally valuable games out from the a few messign pounds—and: Twey may be more specified by your needs. This is a lingly may be more specified by your needs. This is a lingly recommended neutro to late effect on even full more light produces. The man are the produces of the man produces. After all, as with shorted bodies, you can never have be many education pushapes, as orderly to the ley a law bodies for information.

### EDUCATION V GAMES Should educational programs be like video gramme?

Util meently, almost all adventional programs for home use resembled those in schools stimple diffug services with on his and generally file in his way of graphics. The educational aspect was the beal and and all, and wee bablish the programmer who brief to juzz brings up a title for the lock. Now more and more programs are buing relieved where the excusional expects are holden newly behind an acquire general appeads are holden newly behind an acquire general.

Does 4 matter? When considering programs aimed for home use, yes it does. Children have had enough of borng school when they come home. The lest thing they want is to be plonked in front of a screen full of more work, If they want to use the comcurier at all they would rather have the latest shoot 'em un than a first of sums or spellings. Designers and proprammers are beginning to recognise this with the result that the front and of educational garnes are beginning to resemble the latest chart-toppors, and this in turn is encouraging children to practise their basic skits without even realising it. At the same time, the power of machines like the Amina means that metropress are beginning to include a great deal of strategy losseed of the mindless best-em ups of the past few years. Games like Populous, Captive, and Dungeon Mester have become classics in part due to their hidden educational aspects - calculation, strategy and logic problems rather than the usual reflex actions.

Is automore colleges borry? Some of the obtained general must be interest on moder to the 1-bit obtained programs and the control of the 1-bit obtained and the colleges of the colleges of

world is useless if your child down't enjoy it

### DOS AND DON'TS Buying advice for purents

#### DO.

 Choose programs that children will enjoy a well as learn from. This is playtims, not home

- 2 Try the program with your child in the shop if
- Yeke recommended ages with a pinch of sell. Those suggested by publishers can be wildly
- 4 Look for programs which can be backed up.
- 5 Aim for a program the child dan operate in pendently. This means allooking for mouse and loon control opions

#### DON'T

ony if your child means happlest with a simed at a younger age group. It will ving useful practice.

- 2. Don't ignore grade games many bave used aducational elements like mapping, buying objects and memory sepacts — don't lorget physical line movements and refer learnation.
- Most educational programs cover at least sme elements of the National Curriculant, but on't assume that any will cover them all.
- (port) automating programs was union, course. It but they are few anidfar between. Most offer rily practice at aidle already acquired.
- swapping and an-screen instructions beyond the child's reading abilities are very common

### SOFTWARE ROUND-UP

#### HENRIETTA'S BOOK OF SPELLS

Price: £25.99

Publisher: Lander Software Address: 74 Victoria Crescent Road, Glesgow, G12

IN BRIEF: Hopeless Henry has been turned into a frog by the nasty witch, so the player must help Henry's wife, Hernetta, free him from this hombie liste This involves solving a variety of word and letter puzzles in the spooky castle. These ere very simple in execution, but prove to be immense fun, and bridge the gap between learning and entertainment perfectly Probably the best spelling game around at the



Pale le Hkt, Henriette e American causin. His misusen le le rescue



VERDICE	
OOCUMENTATION	79%
EASE OF USE	66%
THOROUGHNESS	83%
LIKELIHOOO TO STIMULATE	89%
LIKELIHOOO TO INFORM	81%
ORIGINALITY	57%
COMPATIBILITY WITH N. CURRICULUM	93%
VALUE FOR MONEY	90%

OVERALL 80%

#### SPELL!

Age: 5 - 15 Price: £25.99 Publisher: Europress Software

Address: Europa House, Adlington Park, Macclasheid, SK10 4NP

IN BRIEF: Designed to cover a wide range of spelling problesm encountered by both children and adults, this package offers pienty of flexibility in its fivo different games. A Set of word lists (5000 words in all) cover different types of difficulties such as your sounds, word families and irregular spollings. Overall, though, the package suffers from terrible screen design - which can make it hard on the eyes - and sequently shart-lived tun.



VERDICT	
OCCUMENTATION	ROW.
EASE OF USE	71%
THOROUGHNESS	85%
LIKELIHOOO TO STIMULATE	27%
LIKELIHOOD TO INFORM	34%
ORIGINALITY	23%
COMPATIBILITY WITH N CURRICULUM VALUE FOR MONEY	76%

#### OVERALL 52%

#### SPELLBOUND! Age: 7 - Adult

Price: 29-95 Publisher: Lander Software Address 74 Victoria Crescent Road, Glasgow, G12

IN BRIEF: A useful series of programs for becarges readers using the fock, cover and spell technique as practised in many schools. Even young children can cope with a little parental intervention, and after a while they'll be stroking through its many spanes. A littie weedy in places and often finidicy to use, this is worth persevering with.

#### VERDICT

OCCUMENTATION	82%
EASF OF USE	43%
THOROUGHNESS	79%
LIKELIHOOO TO STIMULATE	59%
LIKELIHOOO TO INFORM	81%
ORIGINALITY	78%
COMPATIBILITY WITH N CURRICULUM	81%
VALUE FOR MONEY	68%

75%

### OVERALL

#### THINGS TO DO WITH WORDS Age: 5 - 12

Price: £11.99

Publisher: Soft Shift Address: 19 Quarry Hill Road, Toxiondoe, Kers, TNS

IN BRIEF: This is a collection of three word games which encourage spelling in quite a fun way. Anagrams, Jumbled Sentenous and Word Hunt (make as many words as possible from the letters of anothers one all simple to play with little distraction. There are no frills, but this is a solid workeble package



This friendly character is a beotenests, as you will me on verlow

	115 141		et vir sid		ert ert ert ert	ser ih		the	
1 1 0 d 0 f 4 h 1 3 H 1 h									

Norw is one of the sesior anagram screens, with a subscripe al nossible sources along to halo the child choose

VERDICT		
OCCUMENTATION	759	
EASE OF USE	845	
THOROUGHNESS	75%	
LIKELIHOOD TO STIMULATE	739	
LIKELIHOOD TO INFORM	795	
ORIGINALITY	35%	
COMPATIBILITY WITH N. CURRICULUM	475	
VALUE FOR MONEY	889	

#### OVERALL 62%

### JUNIOR TYPIST

Prior: £18.85. Publisher: School Softwere Ltd. Address: Talt Business Centre, Dominic St, Limerick, Ireland.

Age: 4 10

IN BRIEF: Armed at youngsters, but also eminently autable for adults, this program offers tutorial, game and spulling sections. The game consists of various words dropping from the top of the screen at different speeds, while the budding typist has to type them in before they reach the ground. Perfect for family tution, it if help refine keyboard and language skifts

VERDICT	_
ODCUMENTATION	21%
EASE OF USF	67%
THOROUGHNESS	72%
LIKELIHOOD TO STIMULATE	86%
LIKELIHOOO TO INFORM	83%
ORIGINALITY	78%

VALUE FOR MONEY OVERALL

24% 62%

## SCHOC A-3-0-5



All the letters of the pighetest are hiding in shugulas trans Const.



And here a an 'F' trying to come clean. Press a key and Denoid will pu

#### DONALD'S ALPHABET

Age: 2-5 Dricas Publisher: Disney Software

IN BRIEF: Everyone loves the Oisney characters and this game is designed to make use of Donald Duck to help toddlers become familiar with letters in a tun way. The letters of the alphabet are hidden in Conaid a house and the child must spot them and press the corresponding key so that Donald can catch them. Not bad, but supervision is recommended.

VERDICT	_
DOCUMENTATION FASE OF USE	85% 76%
THOROUGHNESS	68%

LIKELIHOOD TO INFORM

ORIGINALITY

VALUE FOR MONEY	CURRICULUM	869
OVERALL	6.5	%

86%

#### BETTER SPELLING

Age: 8 - 14 Price: £22.95

Publisher: School Software Ltd. Address: Tait Business Centre, Dominic St, Limenck,

IN SRIFF: Only two activities are available in this program, spelling using the look, cover, see method and anagrams, but the presentation is delightful and a positive draw for children. The main screen is laid but es a blackboard, complete with chalk and board rubber. As a question is answered a spinning tick or cross appears. After prevent correct answers, a bonus quastion appears giving a good mornilive. The anagrams ne down perticularly well

VERBICI	_
OCCUMENTATION	44%
EASE OF USE	83%
THOROUGHNESS	69%
LIKELIHOOO TO STIMULATE	85%
LIKELIHOOO TO INFORM	77%
DRIGINALITY	60%
COMPATIBILITY WITH N. CURRICULUM	71%
VALUE FOR MONEY	88%

#### 65% OVERALL

#### LEARN TO READ WITH PROF Age: 4-9

Publisher: Prisma Software Address: 29 St James Avenue, Upton Heath, Chester, Cheshire, CH2 1NB

IN BRIEF: This series of programs is designed to take non-readers through from bearming to recoonise words to constructing sentences. Although colourful animations play a part the emphasis is on simple controis and drilling of the bases. Four seperate but Interlinked and/ages are evaluate: 'Prof Plays a New Game<sup>1</sup>, Prof LooKs at Words , Prof Makes Sentences and 'Prof Hunts for Words' It's extremely thorough and sticks to the National Currolulum, but it suffers from a rather dodgy menual

DOCUMENTATION	58
EASE OF USE	67
THOROUGHNESS	93
LIKELIHOOD TO STIMULATE	55
LIKELIHOOD TO INFORM	78
DRIGINALITY	75
COMPATIBILITY WITH N CURRICULUM	83
VALUE FOR MONEY	58

#### OVERALL 67%

#### LET'S SPELL Age: 4 - 9

rice: £11.99 (each pack) Publisher; Soll Staff Address: 19 Quarry Hill Road, Tonbridge, Kerst, TNS

IN BRIEF: At the Shops', 'Out and About' and At Home make up the Let's Spell somes where the child

clicks on an form of scenery then spells it using an on acreen alphabet. French language versions are also available, complete with accords. An expellent all rounder, which initially hooks the user with its graphics, and keeps them there with its content

#### VERDICE

DOCUMENTATION EASE OF US G1% THOROUGHNESS LIKELIHODO TO STIMULATE LIKELIHOOD TO INFORM ORIGINALITY COMPATIBILITY WITH N CURRICULUM

OVERALL 70%

#### MAGIC STORY BOOK

Price: £29.85 Publisher: Solt Stuf

Address:19 Quany Hill Road, Tonbridge, Kent, TN9

VALUE FOR MONEY

IN BRIEF: As a change from straight spelling. games, this program allows any child, whether a reader or not, to create their own on-screen ploture book. It's extremely easy to get to grips with, and the story elements can be used from those provided on

disk or words typed in and animated sequences can be added at a later stage. An excellent package, but not consistent enough.









m z double page aproud is pertially complete. All that needs doing in to posts in the picture elects





par of

enu | scane | svery | cons | play wait | + | took out And now it's time to edd some assure effects from the selection above toperflux with pier duration times.

VERDICT

DOCUMENTATION R6% THOROUGHNESS LIKELIHOOD TO STIMULATE 90% LIKELIHOOD TO INFORM DRIGINALITY COMPATIBILITY WITH IN CURRICULUM 82% VALUE FOR MONEY

OVERALI

87%

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Liss Christmas nearly 20,000 fake Philips 8833 MKII monitors were imported into the country by some unscrupulous retailers looking to make a quick buck out of you, the lights houblic.

Be warned these monitors were electrically unsafe and do not comply with British safety standards.

If your regular supplier fobbad you off with inferior goods go back and demand a refund. Note, product codes on the rear of all genuine UK monitors ended in either 05G or 55G, if yours did not, then you haven't got the real Mc-Coy, 10G was manufactured for the Dutch market and 20G was designed for protected being are safe working on a British power supply. Get it checked before it's too late!!!!...

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# **NEXT MONTH**

If you thought the new-look CU Amige wes a good read, wait until you see next month's issue! On sele Mey 26th, it's bursting with amazing feetures on all things Amige. For starters, all our usual in-depth reviews and product tests will be there, as well as new Buyer's Guides on a whole range of products, ranging from modems and joysticks to memory expansions end top movie licenses. There's a report from the World Of Commodore Show in New York detailing all the latest developments end technical advances for the Amiga, and we'll also be presenting more of our wonderful Blue Pages tutorials, featuring walk-through guides to popular PD and full-price utilities. It's all in next month's CU Amiga - you'd be mad to miss it...

#### A TON OF FUN

Yes, that's right, we're continuing our policy of giving on the best-velor coverdisks on eay Amiga mag with a massive \$120 glavaway of fell-price programs. Not easy that, bet we'll elso have two of the horizon demose seroud as well as e first look at Grennin's Zoof—the 'Space Nicja' they hope will be the Amiga'e aquivatect to Sonic The Hedgehog.

#### GAMES GALORE

As usual, you'll reed the first reviews
le CU Amiga end exit meeth's going
to be no exception with exclusive
examinations of Lucasfilm'e Monkey
island 2, Readysoft's Guy Spy, end
Rage'e Striker, e 38 secon game
unlike eny you have soon or played before...

#### SHOWTIME

Nick Veitch reports from the World of Commoders Show in New York. Une of the higgest ell-Amiga shows in the world, all the latest machines will be on displey along with seme hoavy duty herdware. Dur 5-pege feature details ell the latest advancus se well as showcastleg some of the prodects you can expect to see appearing later in the yeer.



#### DO-IT-YOURSELF

We kick off our BIY column with details of how to make a poystick/muss converter which can switch between the two at the click of a betton. In coming ments we'll be taking a look at Inserting occelerator cards, repeiring joysticks, eligning drive heads and general Aming repairs.

#### **GET SERIOUS**

As usual, our in-depth reviews of serious softwere contious to set the pace. Over 3B-pages of preduct tests meen we give the mest complete coverage of eey Amige megazize. Items for review eart issue include image Alestor, a 24-bit peint pack-ees, and V-LAB — a roal-time video

digitiser. Also on test will be the GYP Mk.2, e 24-bit card, and the new Power Scaneer.

#### GOING PUBLIC

Higger and better than the rest, CU Amiger's PI Scene end PD Utilities columns caver the entire spectrum at the Public Bomain and give the most semprebensive buyer's guide Information at eny magazine. Next issue elso sees the start of our speciel 'Amazing Worldo' teature which toouses on top demo groups trom around the world.

NEXT ISSUE on sale May 26

# Bit Software

PROJECT X The lef

#### DEJA-VU

POR NOOMMAND SEEDS AMO PLATFORMS DAME IVERY PLAYABLE! LPD64 QHESS WHO NEAT PUZZLE GAME LPD64 PICTURE HANGMAN (GOOD FUN) LPDIG COLOURING BOOK ? (BRILLIANT) PDMOICON BANK EDITOR

LPOTS VIDEO LAB. THILLING PROMS LPDTS SOUM GRAPES, OBERT STYLE GAMP LPDTS DATABASE VS.0., SUPPRBOATABASE LPOTZ MONSTER ISLAND, DVINGEON MASTER FOT THE YOUNGER PLAYER LPOTI BATTLECARS, SMASH THOSE LPD76 PAINT BOX, JUNIOR PAINT PROG LPD69 MADICAL MIX UP, GOOD GAME

LPD69 VIRUS BUSTER, THE BEST VIRUS PDS7 CYAIXINIA, MEGA GAME LPDS CYALXONIA, MIDGA GASSE LPDS HOWER PLANNER, HOME UTILITY

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#### If you're reading this in Australia. you can WIN a CDTVI

est of CU Amies's etrailan readers don't stand a Dinge's chance of winning our compos, as it takes mently for their entries to reach us. However, to make amends with our leyel Aussie readers, we're offering one of them the chance to win a wonderful CDTV unit - quaranteed to work with their Antipodean Amissa, And for one runner-up, there's a bundie of twenty games, whilst another ten will win oneyear subscriptions to the

What do our down under followers have to de to win this superb device? It's easy. Listed elsewhere on the page are five multiplechoice questions awaiting year attention. They're all related to Samous Aussias who have made it in Britain including members of that well-known Oz export. Naighbours. Still, enough of this chit-chat- we're off to watch Prisoner Cell Block H - here are the all-important

amerine CU Awise.

### WIN A COTVI

#### What was Kylie Minoque's first hit single called? Was it:

- B. The Lacomotion
- Commodera's decreait C64, is it: B. Paul Keation A. Kikky The Koala
- B. Rolf Harris C. Paul Robinson

Name this famous 0z artist.

seen to the right promoting

D. Paul Keating



- A. I Should Be So Lucky
- G. Any Dream Will Do
- Talking of Heighbours stars. whe went on to star in Andrew Lloyd-Webber's 'Joseph And His Amazing Technicologr Breamonat'? Was It-
  - A. lan Smith B. The Twens
  - C. Jason Donovan D. Paul Keating

#### Which one of the following isn't a popuisr Aussie snan?

- A. Home And Away
- B. The Young Doctors C. The Flying Doctors B. Paul Keating
- S Name the incredibly talented



B. Dippy C. Skippy

B. Paul Keating





Aussie Cernen, CU Amigs, Priory Court, 10-32 Ferningstein Lane, Favringston, London, EC1 3AU, England. The compa ciones as Explanator the 30th 1982, so there's planty of time to tie that Kanosree slever. Supri, and get those entries in. Any received after will be birmed

O EMPLOYEES OF EMAP IMAGE OR THEIR FAMILIES CAN ENTER, AND NEITHER CAN ANYONE WHO DOESN'T LIVE IN AUSTRALIA. THAT'S IT, REALLY...

6 Finally, there's a tio-breaker to help us datermine the winner. Simply read the following phrase and complete it in no more than ten words

Hove the Queen because.

# crunch.

Disk space is always a problem, Mat Broomfield doubles up as he

> explores the

available for the burdened floppy user...

THE SQUEEZE
No matter how much date you squeeze onto a

dick, it always search that there's never unto anough specin. A number of solutions have amonged, ranging from data compression and archiving systems, to higher capacity disks and drives it's the former two methods that are the subject of this arcte.

Date compression can be split into two bases categories deta specific systems, such as the graphics-only MFG, and generic ones which will work with any type of data. Although date specific systems yeld the most limpressive space sowings, generic compression routhies are les more practicel in averyiden nes thanks to their versatility.

Generic corripression systems can be further divised into two categories: single or minti-file Powerpacies is probably the best known of the single-file compression programs (see panel). For now, I want to look at midti-file systems, which are more commonly referred to as scribiness.

#### ARCHIVE IT

An archiver can be used to process the entire conteries of a disk,—or defice—and correct them into a compressed format which affectives all of the directory and the information, yet which is stored as a shighe block of data. Individual files and directores can then be extracted from this archived data block at the near's listens.

There are many archivers available, most of which can be toned in the Phiblic Domain. The most popules are LHArc, LhA, Zoo and PKAZIp, all of which produce more or less the same and

resnit. The two most importent features of any enchants, see the speed of which it compresses and decompresses date, and the amount of compression it can achieve Higher compression rates mean longer compression times, so a moderate halance of the lear is usually chosen.

#### YOU'RE HISTORY

The original archives was created as a result of a compression formize claid the Haffman algorithm. This was used by Japanese programme, Hanyasu Yoshbatak, Io write the first MSDOS anchiver for use on POS and relationersor Stree then, the original algorithm has nicketgone sowhell refinaments, but still stands as the basis for all commonly-used erchivers.

The most popular use for enchywers in on bulletin boards, where modern owners can ning upsayd moore all programs who the falsphone lime. Each second of download and coats valuable money, us is important to reduce the files to the smallest size. Despite here widespread use, though, three's soil in o shigle standard for archivers, but users of certain bulletin boards or distribution networks tend to feyoru particular. types For example, the Fred Fish Public Domain disks generally use LMArc formal, as do many CIX bulletin board nears. Because they were originally used primerily by 'tenious users, most archivers even't intuition-driven and therefore don't heve uses-friendly menus or mouse-operated gadgets,

#### A SAMPLE SCRIPT

Most archivers are conpt-driven, and require instructions to be usued via CLI or Sholl. A typical instruction may look like this. LHArc -x e archivename DF1.text.\* doc

The instruction comprises live main elements: switches, commend, archive, filename and pettern.

Although I sand "x", there are a nimber of posble neathern. Fine are to options, but they can clarify the way the sethive should proceed—for searning whether the should proceed—for searning whether the sent within describes should be included or incl. The comment of in this case, that the sethive what to do with the active of whether to add or immove files, or perform sections of whether to add or immove files, or perform sections of the section of the section of the section of the whether to add or immove files, or perform sections of the section of the decident exist yet, one will be created with the name

POWERPACKING Processions to be between the congruence relates, and as to the life one, it such difficult is a programment test. We many though the latest three the congruence test interest in monetally and a new available to arrow the first analysis that the secondarily program, and had loss known in province comparison does if one 10%, in proceeding when the of if it comes.

Processario e see accompose by a cells of propose decayed in competite Processario III. Philorois and he modes (and white Pricial in classing screen Pricial will on any arteriation distincturity (and only in and is represented which the cold the latter chartes of the propose on a register with a complex pills by all back to access the enterpolarity proposes in common all some of the Bits (see that is not fine Presson Bash) to an entrop processing, a samplete extens of Processario III is public. On model's constitute, what one could be processibly well.



FEATURES COMPARISON Because archive users are constantly tooking for the 'ultimate' program, this table shows the average results of maltiple compression and decompression of 29th of taxt, graphics end other data fermats stored in multiple files, using multiple switches.

	TIME (S)	COMPRESSED SIZE	SAYING	COMPRESSION RATIO
LHA V1.10	64	707135	64.5%	2.8:1
LHARC V1.30	120	775914	61.0%	2.6:1
PKAZIP V1.02	124	737767	63.0%	2.7:1
700 V2.1	176	707476	64.5%	2.6:1

it comes as no great surprise to see that LHA comes first is every test as it's tim most recently-released package. But it you look at the results for Zee, you'll notice the clas elc trade off: great compression rate, lousy speed!

riven in this section. Filename is used to specify the file to be archived, however, if the name of a directory is given (DF1:c or DH0.devs for exam ple), the entire directory will be erchived. Pattern, the final alement of the restruction, can be used to filer out nowanted files in this case I've told the erchiver only to access files that and in the cherac-

THE BIG ONE Despite their

ncredible power and flexibility, meet erchivers come unstuck when you

dish to floopy. If the compressed tile comes to over \$50h, most suchivers are unable to split it so that it can be

ever, en American program which can
so exactly that.

Quarierback Tools is an invaluable

Guarieriach Toots is an invaluable stillty which compresses even the rogest of tilles, automatically request them. It achieves the highest rate of empression possible, but to de this if material sides which cased the read by material sides which cased the read by the read and t

terback Tools costs £52.13 plus

VAT and can be bought from it8 rketing. Concorde Building, Unit 3.

ent to transfer a large file from hard

red on several disks. There is how-

There are handreds of ways that these did ments can be combined, giving endless archiving permutations, and vertually absolute control over the finished results. The manual for LHA alone covers nearly lifty pages, so you'll appreciate it if I don't explain awary combination! Mind you, the results it offers are well worth the effort, and most neers probably won't need to read beyond page ten in any case

ADDRESS BOOK

Utary artisological

#### CONCLUSION

To summerise, archivers can make your life waster by storing and compresumo files in a single longe block of onde - en erchive Additional files can he added to this of a taker date, or removed if they re no longer required The dete-stamping option allows the user to autometically create archivas consisting of fries created or modified after a certain date, making it an ideal way of backing np data on a hard

is I HAm, although LHArca and PKAzio ere both intuition driven, and hence more user friendly 1f you want serious compression, remember that it comes at the cost of speed - but it could be worth thell extra time. To summanse, archivers are very simple to use, can seve you loads of disk space not to mention phone bits - and are an assential utility for any "sengus" user. Why not buy one

Todables WEI 100 There are dozens of cheep Tel: 0974 259967 archivers available, but the best known

#### JARGON BOX

Archive - File conteining one or more compressed files Archiver - Program ased to create en erchive

Bulletin Board - As ejectronic "meeting piece' where modem owners can contact using

their compster. CIX - A very popular bulletin beard.

Compression - The technique st reducing information in eize whilst retaining its exact con-Compression Ratio - The

amount by which a file is reduced in size after compression. A retie of 2:1 means that it has been helved. Decompression - The precess

ot restoring a compressed file to its original size end tormet. Huffman's algorithm - The original formula used as the besis for most archiving sys-

JPEG - Joint Photographic Executive Group: A special compression technique for pictures that results in asvings

LHA - The newest erebiver which echleves high rates of compression and works very quichly.

um to 97%1

LHArc - The most popular and best known archiver.

LHArca - A user-friendly verplan of LHAre using windows and meeus

Modem - An Interlege that lets computer owners transmit and receive data vie e telephone line.

MSDOS - MicroSoft Diek Operating System; the disk language used by business mechines and PCs.

PKAZID - Passibly the most user-friendly erchiver of ell. Script - A command or sequence of commends

Zeo - An older erchiver that gives excellent compression retes, but takes a long time te do It



lodey?

## BATTLEAXE P.D.

FISH 1-550 DEJA VU 1-57 T-BAG 1-58 REVIEWED THIS MONTH

#### ALL ORDERS DISPATCHED 1st CLASS, SAME DAY DN BRANDED GUARANTEED DISKS DEJA VU

AM/FM

AMICA MUSUIARS, FREEWARE MAGZZINE IS A REULINTLY STARTED DISK MAG FOR AMIGA USERS WITH ARE MUSICIALLY INTERESTED IT DUMERS ALL ASPECTS OF USING THE AMIGA FOR SOUND AND MUSIC PRODUCTION ERRING NEWS REVIEWS GOSSIE TOTORIALS AS WELL AS 3-4 SELECTED AMEA DIME SCHIES 3-4 MIDT SONIGS AND 2-5 SELECTED SOUND/MUSIC OTRUTTES IN EACH ISSUE DISEATED BY SOME 20 PROFESSIONAL MUSICIANS INCLUDING BLOTS IT WE AND TELLO KINNLIFREN

MUSIC PACK THE OREST MUSIC MAKER

PLLL OF INSTRUMENTS, BEATS INC

CATALDGUE INFO DN ALL OUR DYSKS ENER SOFTWARF ON THIS DISK DIARCE TO WIN MICH IS KEYBOARD

AND 2x05 MEG UPGCACES PRIFE WITH DROPPS DVER 10 DISKS

CAN'T SET THAT DARN PRINTER TO WOR 2 disks YOU'VE HEARD OF WALDOWS OR THE PC, NOW DN AMIGA B12 WINDOWSBENCH 138 DESKTOP PUBLISHER HOT SUPER-KALLERS MAD TEXT PLUS VEIDS

FANTASTIU ACCOUNTS PROGRAM FOR BUSINESS OF HUM MAKE LEAFLETS etc BOLLS PLUSTIT MORE VALUES HAND BUT SEEMS CADEN WORD-PRO MENU CROVEN AREXX SUPPORT THE RESI SUN RC SOFTWARE \_ IT WORKS COMES WITH U.G.A. GET PRITTORS AMEGA RACK IS TIME BOB PC EMULATOR 807 AS4 EMULATOR BOD SPECTRUM EMULATOR & UTILS. EVER UDINES WITH A GAME RUNS ATARL ST SQETMAKE IT WORKS AS WELL IS YOU AND UP THERE WITH THE BIG BOYS UET THE THE LATEST VERSION OF THIS COMMS PADGRAM

BSB JR-COMM 1.02 ALL TOU MEED TO LLATON IT COMPROENTS URPACKS ONTO 2 DISKS COMPLETE C ENVARONMENT 2 DISK BACKGROUNDS & FONTS FOR VIDEO EXTRUSIASTS ETC 4 DISKS TIMPROKS ONTO 2 DISKS TY GRAPHICS 2 DISK VICEO UTILITIES TO ACCOMPANY TO GRANGE VICEO ARPLICATIONS AMAZING TITLE AND TEXT SCROLLED FOR VIOLO ETC 23T SMOVE VIDEO UTILITIES + FONTS SOMETHING FOR NOT MIRG THE LATEST WASKINGOF THIS GREAT COMMS PROGRAM N COMMANDE STY. CLI IS A BLAST WITH THIS OFF MUCH MUCH BETTER THAN DISKDOUTOR ON WI THE LATESTY. THE TOP ICON MAKEDS AND ECITOR WITH SOME ICONS
TOU HANT A PRINTER YOU NEED A DRIVER BATTLEAXE ICOM STUDIO

THE LATEST MASTER WIRLS KILLER AND THE BEST OK S TRAUS THE BEST MUSIC CREATOR RAVED ABOUT . . . 2 DISK, GOOD TOUNGER TUTOR
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E

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HIREVIEWED LAST MONTHUS

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# bueped by Contents ... Possible Worth Reading ....

The Sluns are both with a distinctly naw load. Wh've had a major rathinh of thasa pagas over the last couple of months and have radkally revemped them to appeal to both the hardcarn anthosiast and gamer aliba.

So what's new?

For startnrs, wn'vn Introduced a number of new columns. This month sees the stert of regular monthly features on DTP,

Programming, Education and Comms, and there'll he snancal others haginning next month, too. Dan't warry if you'rn naw to thn Amiga, as noch calumn will start off with the hasics before maying on to marn involved metters. Buyer's Guides, wolk-through guides and saftween charts round off the packings, so read and egipy...

172 JOYSTICK BUYERS GUIDE Stock for a methy thoroughbrad stick that doesn't go wonky after less than a week of waggling? Then read our comprehensive Buyer's Guide where wa've put lifteen top sticks through their paces to find which ones melte the grade.

176 SACKCHAT (U Aniqu's letters pages have often been noted for ollowing our readers to let off steam, and this records is on exception. Why part join in the arguments already reging or create some contraversy of your swin?

178 STEP-8Y-STEP The lease benefit the start of Step-by-Step.
Here, we'll he printing user guides to some of the most popular 90 critinies whick often cross without proper document-hore. If you're shamped on how in guit the most out of a postriation 90 program, due to a line and we'll attempt to acquire and oil. To body with, we toke a look of 350, the popular dock proposition attify.

180 NARD DRIVIN' It you've got a Hard Drive but don't know what to sfick on it, been's a mini-Buyer's Guide to the best of HD-install-follogomes for your modition. If it isn't here, it's not worth the bother.

182 QUESTIONS AND ANSWERS If the Amiga was a specialist subject on Mastermind, Mart Broomfield would be laughing. As it is, he's here each month to answer your questions and solve your problems.

187 DOCTORIN' THE DISK Dur three-port look at the innerment workings of floppy disks maches its conclusion, with Hith Valleh explaining how to repair a disk area its been damaged.

188 PROGRAMMING If you dan't know Alboox from Andrax, then Hick Yeitch is here to set you straight with the first in a sense of features on the Aniqo's most powerful programming language. 191 DTP It's that man Nich Yeitch again, this time giving you the benefit of his in-depth knowledge of all-things DTP. If you've even wanted to start your own magazine or design your own becomes cards, Nick's here to chart the way.

194 COMMS Dave Borns acks "Who yo game cell?" in the first installment of his regular (Imms calcum. This meeth, you'll find a beginner's quide to setting up your Modern and communicating with the rest of the Amigu fraternity via the balaphoce lines.

196 INSIDE INFORMATION If gomes ore you thing, read the only column that matters. Each minth talk Haynes leaks at the meet institute technical obsences in gener entertainment and cests his mind look to begrow times when man were real more, woman were read woman, and 14-bit genes were, arm, not very good controlly.

199 SOFTWARE CNARTS There book! Yep, read the definitive selfveore charts, as we list the top heartly movers and shalters as well as the best bodget buys and what the CU ANIGA team are currently playing

200 EDUCATION An one often neglected by other magnatus, Mike Serrard is on head to begin the start of another regular column. This meanth, Mike teless to Jobet at the uses to which the Amigin is helpg put to in schools and colleges up and down the county.

202 POINTS OF VIEW Points of View abo returns, which gives industry figures on excess for a good roral about meything they feel like getting off their cheef. This free UGM's Europeon Editor, Bid. Hoyens weets has splain over the serry state of games development. He's not going to make many friends, that's first source.



There's no such thing as the perfect joystick, but some come closer than others. In the first of a two-part feature, CU put a selection of the finest loysticks through their paces.





#### ng a joystick is easy. Buying one that doese't isil apart or stop warkle Sonmax Price: £10.99

It you're fed up ferking as

a small fortune each menth to

replace faulty jeysticks, then tear no more! CtPs crack

team of wagglers have keen busy ever the lest two month

putting some of the fleest joy-

through ardseus restines and subjecting them to literally houre and hours of solid play.

reviews ayer! To make thing

eney, wa've given ench joy-

bility, ease-of-use, comfort factor, and responsiveness.

stick an everell scers se well se marks ter innoveties, dere

sticks that money cas buy

The result of all this was gling? Probably the most

comprehensive jeystick

hin a wack is another mat The handle's microswitches give an excellent response and, coupled with er autirely. Faced with as addless erray of rubbersteel shaft and pistol grip, cen't be eneked wonders, such with faulted It's double-eight figure fits the Ite aws ergenomic design and autrageous claims of hand well and the thing even looks the business thanks to a transparent longevity, it's a thankless and castly tesk choosing which plastic cosing ene to pit against the likes of Project X, Speedball it or Ralabow islands.

On the down side, the lest spring frebutton gives little tactile feedback and is awkward to press for any length of time. Cord length, at just over five test is a bit on the small eide, and the lack of an euto-fire facility is a distract drawback. It's essentially a hand-held device as there's a lack of suction cups under neath the base of the machine Instead, the stick is graced with sup posedly non-slip rubber pade which silp and elide aboni a tabletop like

YERBICT: Looks the business, but

INNOVATION 75% OVERALL

O THE BUG

Cheetah Price: £14.99 The Bug certainly lives up to its namesaks it's incredibly tiny and would be an ideal eterier stick for e young child Suttable for either left or right-handed players, the device comes with a five-foot cable and two compact body. These ere activated by the player's thumb with the stick's shaft conveniently located towards the centre of the device. The main failing of the stick is its abysmally short shaft which allows little or no grip and, therefore, a subsequent loss long stick ere assential ingredients in a successful joystick and not sacrtice such aspects for gimmickry such as

VERDICT: Looks cute, bnl plays like

INNOVATION COMFORT FACTOR 52% **OVERALL** 

**O TORTOISE** Chestah Price: £18.99

This looks and plays like a joke Obviously aimed at the present age group, the Tortorse consists of two nnits a heavy duty stabilising body and an 'argonomically' shaped controi 'shell' The hand le enpposed to at. Movement is engineered by rocking the shell from side-to-side and top to bodom, but this proves a cumbersome and ineffective control eystem which soon becomes tire some Also, it's doubtful that small hands will get the most out of this device as they would probably tell short of the firebuttons dne to the bniky nature of the shell

**VERDICTL** One to evold?

INNOVATION

OVERALL

90% 11%



#### **ONAVIGATOR**

Konix Price: £15.32 Descrite its weird design. The Nevigetor lits the chape of the hand simosi perfectly and gives a pistolpositioned conveniently close to the user's trigger linger, repid lirepower le yours for the taking Fully-functioning microswitches also mean you can hear and feel every click and move

meni you make My only real criticism, and it's a blogie is the swiul sheft. It's just too tiny and doesn't allow the user to get a good greep of it during play the shaft is made of matal, the model under lest broke down after only three house of use. Not a very good recommendation, I'm sure you il

Cable length is a very good five and-s-half foot and the autoffre mechanism kicks in when the firebut-Ion is held down, ensuring a constant streem of builtsts during play

VERDICT: Strong on ergonomics.

INNOVATION	88%
QURABILITY	45%
EASE-OF-USE	83%
COMFORT FACTOR	88%
RESPONSIVENESS	62%
OUEDALL	FRA

#### CRUISER

Powerpley Price: £10.99 The Cruiser has long been a favour of mine. These days, the stick has metsmorphosed from its sleek matt black beginnings into a multi-coloured mechine which boidly mixes pinks, blues and greens in a tasteful display of overstellement

The basic elick is affil year much intact, though, and offers on essy tograso hendle coupled with solid construction and a special twist lock et its base which offers three different resistances, looks, medium and stiff. This is probably the etick a best feelure, ellowing you to alter the raeistance to suit the type of game you're playing For instance, it you fancy a game of Speedball 2, a still setting will allow you to furn your players on the spot, while flight sims are best played with the joyetick sat usi movement rather then short stacatto bursts.

The leed is an acceptable five footer end the base of the machine fits anualy in the pairs of the hand There are also four suction cups at the bess of the slick to help affix it to your table-top it you should so require. Two microswitch fire-buttons and directional control provide the long on the caks

VERDICT: Overell, a brilliant stick.

INNOVATION OVERALL 85%

#### C SPEED KING Konly Price: £12.25/11.25

Superficially, the looks cheep ent shabby. Even its markings are the result of transfers overtaid on to the moulded plastic of the mein body. Aestheboally, if a e non-starter, but once you've summoned the courage to remove the L-shaped contraption from its box, it fits rether nicely in the paim of the hand with the thumb occupying a special grove and the Index and middle fingers centred

During use the stick gave a very good tactile response and the microswitches worked well, From my Initial misgiving, the Speed King sticks end proved adeptable to any type of game, whether it be a pistform lumper or an elrorett ern. Al ely, foot the lead was one of the longest we had in for test. Modele are evallable with or without the autofire

lelinitely worth a lesi	
NNOVATION NURABILITY ASE-OF-USE OMFORT FACTOR	70% 85% 80% 90%
IESPONSIVENESS	80%

#### Quickshot Price: £9.99 Quickshot proudly boast that they've

sold more than 20,000,000 lovaticks worldwide. Over the years, they've built up a reputation for sturdity-built sticks, each with its own 12 morth guarantee, and they've an moredible range of models to suit most tastes and pockets Heving seid that, they've just ter-

nished their reputation by releasing o clumpy to use end awkwerd to hold the kiss of death in joystick lerms it's double bendlehar orto le top small for an everage-sized hand, especially when both thumbs are needed to operate the loypad and firebutton postboned lowards the centre of the etick. There is a second firebutton, postuned on the undersice of the stick and operated by the Index finger, but it's in such an awkward position that you'll soon tire of punching the ped

Due to the lack of microswitchse you don't get such a tactile isedback while the stick's in USS, and the fourfoot cable length is a bit on the short eide The joypad is elso a pein - I've never got used to them, even though I own a Femicom and much prefer the more traditional joystick control

VERDICT: Il's solid construction is

	470
RESPONSIVENESS	48%
COMFORT FACTOR	34%
EASE-OF-USE	45%
DURABILITY	88%
INNOVATION	80%



Furnmax £34.95 The first thing thei's nobosable is the springy feel of the stick. It has just the right amount of travel for a good bash at virtually any fast-paced arcade game and the fire-button perched on top of the shall is an easy reach of the thumb. There are also two buttons on the base of the alters the rate of autofire by turning it clockwise or anticlockwise Strangely, though, the base and stick

The long thin shaft means you can easily wrap all four fingers around it, but the cord length is a risk bis four foot long. The shalt's microtwitches give a positive feedsoring like buttons once again prove mance, it's especially nobcushie on shool 'am ups were you need to con stantly monitor your linning rate - with is leaf spring that is almost impossi-

VERDICT: Smart and stylich stick

INNOVATION 88% 95% **GYERALL** 



#### ZOOMER Euromax Price: \$69.95

The Zoomer is a special el stick amed at flight sim and driving game entitude

auto-fire knob on the base of the

asts its yoke resumbles a steering wheel with both lop and bottom bits but away. We not small, as its 30cm tall by about the same length width-wine Fire buttons are located on top of each arm and there's an

machine. Four suckers keep every thing stable and the cable is a good nox-foot long I found that the Zoomer greatly enhances the realters of fight simula tors and driving games. The handle. thaif has reasonable sideways rota tion hut the vertical axis is considerably less mobile. Because the up/down and left/nght movements are so different to each other, it over-

comes the problem of sensitive joysticks which dive when they should be turning and turn when you want them to climb It's not really suitable for the likes of R-Type and Speedbalf, but load up Flight of the intruder or F15 and you'll have a ball it definitely adds a new dimension when playing these type of

VERDICT: Costly, but assential for

INNOVATION 96% OVERALL

#### SWITCH JOYSTICK Gravis Price: £39.99

A little too big to hold in the hand, this



firm grip and moulds itself to your

The stick comes with a very apphysicated tension adjustment sys tern. This allows the user to set the amount of tension or maistance pro vided by the joystick handle. Ten settings, which range from loose to stiff, ensure that there will be at least one setting which suits your playing style, in addition, the tension adjuster throw of the stick, making it ideal for flight sims and arcade games alike Restricted movement allows for faster mactions such as those needed in arcade-onertated games, while the softer settings provide smoother movements suitable for Right simule tors and driving genres

Trigget points are automatically set depending on the tension adjust ment. When the stick is set at a loose setting, it greater amount of hendle deflection is needed before a response is triggered in the game. It's also possible to manually adjust these impger points for even more controllebilty. There are also three lire buttons, two located on the base of the unit and one perched on top of the handle. Button selectors at the side of the machine allow the user to independently select each fire but ton's function, ranging from normal

fire and auto fire capabilities to for All these features add up to one hell of a joystick. A six-foot lead, solid construction, and a pleasing design help add further to the stick's appeal Although quite costly, this is worth the

investment. VERDICT: A superior stick with more INNOVATION

It fits the hand in a similar feebion. to a revolver with the handle neeting in the palm of the hand and the index-finger ideally placed over the firebutton. On top of the "barrel" is the iovatick a shell, topped off with a impobbly piece of plastic for the grip Overall, its design is alon to Kono's Nevigator, but the knobbly and to the sheft makes it an altogether more controllable affair. An auto-fire button is also perched atop the machine together with two thruster buttons fived in each lin. When pressed, those are reputedly meant to make you speed up, but they're pleased in such a ridiculous position that it's doubtful whether you'll over call there

Logic 3 Price: £13.99

When the Sting-Ray joystick was first

released, it caused quite a str, due in

which makes it look like one of those

rayouns that Flesh Gordon used to

bandy about in those crumbly black

and white early-morning sci-fi serials

Despite such unfortunate compar-

the Sting-Ray has gone on to

become quite a popular joyatics

isons, or perhaps because of them

no small part to its abound styling

into play. A six-fact cable rounds off **VERDICT:** Once you've become accustomed to the design, it really is

the package

**DVERALL** 

*OVERALL* 

92%





#### SIGMA-RAY

Logic 3 Price: £14.99 This one has the best grp of all the joysticks we tested The pietol grip fits the contours of the hend beautifully, with noth finsbuttons within easy reach. There's eleo a couple more pleced at the base of the stick, just for good measure, as well as an auto-lim switch and single-shot option button. Style-wise, this is the pick of the bunch, and in play the slick also excels, proving to have just the right amount of tension for flight sms although not quile so hot for arcade-orientated games.

postive leedback and the suction cups allow for table-top play as well se hand-held action. Cord length is a minuscule four foot, but the overeit Igyout of the stick more than companeetes for such shortcomings

VERDICT: Nice looks, solid con

89%

OVERALL

#### THE ULTIMATE

Euromax Price:£34.95 When we reviewed this in October last year. Dave Kelsey reportedly raived about the machine's 'superb etyling and rugged construction' I can only assume he was the victim of some heliucinogenic drug, as my Obviously not a hand-hald model, this table-lop device is incredibly ugly and cumbersome. Admittedly its spherical hand-grip proves to be a worthy leature when compared to some of the other sticks we've saviewed this month, but its unre aponeive fire buttons give the

machine a decidedly dull leel Perhaps its best feature to a variable-speed autoline button which can spew out a super-fast hall of shots at its too speed Unfortunately, the machine also has its lau eners of minue points and the unresponsive helm makes aroade games a positive chore Although hitse a whosping six-end-a-half foot lead (mistakenly put at 10 foot on the packagings), the rest of the machine doesn't live up to expectations. I found it slow to respond to tugs on the joystick shaft and rather too bulky for its own good

Joystick Took elsawhere

EASE-OF-USE COMFORT FACTOR **OVERALL** 

VERDICT: If you want a table-top

ax Price: £14.99/13.99

This is the stick ('ve been using for the last year and it s still going strong Two fire buttons placed el wither nide of the unb mean that both right and left-handed players can use it, and the solid con

with as much wigging as you can possible throw at it. Even Ocean s eging Daley Thompson's Decelhion Bus statura

The stick's long shaft and knobbly too prove invaluable in overall control and helps afford a nice, comfortable grip, Micro-switched throughout, every tug translates in a rice, tight response and an auto-fire leature pro vides repid bursts or e continuous stream of bullets. From Speedball to A Type, from Project X to the Addams Family, the Zip Slik handled

About the only cracism that can be levied at the stock is its pallry lead of sust over five foot. But that's retpicking - piey and enjoy.

VERDICT: An essential purchase INNOVATION

OVERALL 95%

#### THE ARCADE Euromex Price: £19.95

offices, The Arcade has proved year's worth of constant use. The fact that if has survived such duress is a sestement to its sturdy construction and solid design.

What you get for your money is a pretty basic stick with one fliebutton and a long shaft with ball-hendle. If might not be much to look at, but it plays superbly well and, if it wesn't for the leaf spring firebutton, would be one of the best stoke evallable The leck of options comes as a well come relial as it seems to be the fashlon these days to incorporate as meny unessential gimmicks as possible merely to artificially bump up the

The beck-to-basics approach is to be widely applisaded and the matt black appearance of the machine, together with its triengle design gives it a certain style all its own

VERDICT: Tough, resilient and very

89%

OVERALL 86%



#### NEXT MONTH

sion be namenacing the winess of the CU AMIGA 'Jayatick of the Year sward. So join se next mowth fat mather spot of waggling...

# **BACKCHAT**

### COMMODORE

Am I the only person who hasn't laiten for Commodore's plentiful hyperbola? All that crap about the 'success of the CDTV' and non-exislent competiblity problems of the A500+ - who are they trying to kid! The CDTV has got to be the biggest gile of rubbish I've seen, I'm fortunale enough to work in a computer shop and, as a result, gal to see all the latest software and hardware releases in detail - and if ever a piece of kit was to be labelled a Dodo, It's the CDTV, QK, so the software is to blame as none of it is really up to the potential of the machine but even so the unit is overpriced and pretty much redundant. The idea of the CD medium is an excellent one, but as Commodore don't seem that worried that the softwere currently evaluable is Inpe, it will be their own fault whan It turns its toes up. And when they finally get the add-on drive out, well do they really thenk thet all of a suddenly sveryone will support it? I don't think so.

As for the 500+ flasco, this seems rether similar to the furors that surrounded the release of the 128K Spectrum a few years back 'Complete compatibility', the Sincleir

eds shouled. "Rubbihir dismand poor ed uber Public I ber Commodors ed uber Public I ber Commodors laughed I halt nock of the win his happened – but if a hungh how hery ear keen to pays down the current incompressibly appending, libour ear to be a second of the population of the commodors on the new machine – yeah, only because lamply as there updated for the machine – beauth, and humand some of the commodors have a second of the machine – and them the machine – and them the machine – and them the machine — and them the machine – and them the machine — and them the second properties of properties p

the public in mind more often — after ell, we put them where they are today... Name and Address Supplied INCENSED LICENCE... In reply to Meton Andrew latter

regarding improvement in game licensing — what complete nutbesh! The computer game exerce has now got to the stage where he lack of imagination in design is earn exerce that film or IV adeptations fall into two distinct groups. I'm not taking about good and bad, but onlawy or multi-level. If Cosan, U.S. Gold or whoever aren't riginity off Roboccol in to table! Umstading dame, they simply.

take a few scenes and turn the game form game. Who knows what will happen when The Waltons is fermed out for licence. I can imagine the edvert now, "See Jim-Bob leap through the air, squeeking the devel opers who want to pull down Pe's workshop with his backside. Geep as Mary-Ellen drives her push bike up e vertically scroling stage so lital she can buy some flowers for her Mom. Work out the Iricky puzzle surrounding why every episode is the same. .. Don't laugh, il could happen! Why not, after all The Godfather lumed into a bland shoot 'em up and 7he Addams Femily seem to be Merio's long-lost cousins from what I've seen

Only one licence has tried anybring new, and hat is Ocean's Plag new, and hat is Ocean's Plag new, and hat is Ocean's Plag new, and called University of with its misses deal University of Singaby, and the Hao States (Memot and Keen), will be writing not enother categolythis (some), and the day that happens is the day I said my Amiga, and buy a Megadimy before it runs into one.

It's this kind of letter that makes Backchal worthwhile, I can see a little development team's eye lighting up right now at the thought of your proposals for The Weltons pame, Still, don't be too hereh on the cutesy games as they are still very playable, regerdless of how well they lie in elthough I suppose, on reflection that dove make the over-priced ticence a little redundani. Howaver, on the elde of Ocean. U.S. Gold and Co., they are trying to add variety, se witnessed in Robo III. And Gremlin's Pien 8 hee stan taken a different route, so don't sall up lust yet ...

#### IMPORT-ANT?

Twe noticed its recent essues of CU that is do do you reviewe are of imported utilities. The most recent example of this way your Turting Jepanese review. OK, so we can order trace for mot the oversees companies, but if he costly see to get imported the processor of the cost of of

Most of the Imports we review ere size of available in Britain. If there's enything you're interested in, then ring around the essorted mall order people or visit your local softwere emporium and esk them to order it for you.

#### SOUND INDEED

Many Branks for the April assulfs music feature. It contained everything I readed to know about this potential trained and However, what I would have likes to have seen was a place on femous poo people who use the Arrige for sound. I know the ST is used more because of its Almige for sound. I know the ST was used more because of its MIOI capabilities, but apparently the Armga's is seen by the starting from it among the propriety of the starting propriety. The starting propriety is starting to make the propriety of the starting propriety.

We were going to incorporate auch a list into the feature, but the truth of the metter is that very few musiciane socially use the Antiga. Whilst the likes of Julie Forthem, the KLF, and integination (remember them?) use the ST, we could

FULL GAME PLEA

can hacked by the case of the will depend a particularly that do in her of a phosp any fine greater on magading filteranced Army Month, but Consciently the dod point in this table to the contract professional professional and any Month, but Consciently the dod point in this table to the contract professional and professional and the contract the contract to the contract the contract professional and the contract professional and the contract the contract the contract professional and the contract the contract the contract the contract professional and the contract professional and the contract the contract

Personally, we are against full price general AND edition on the disk. Yes, we some that fourly of Jesus and Jesus-product a few general point months indicated to the best to disk the second of the

**COT SOMETHIN' TO SAY?** CU AMIGA is the country's festest-growing magazine, and therefore the premier forum to air your viows on anything connected with the Amiga sense. Your comments can make a difference so don't be indifferent,

drop us a line todey.

only come up with Snap using the Amigs. In addition, Snap's usage of the machine to very tenuous, and we only have Demonware's word to go on.

WHAT A PIG...

I've seen it all now I was flicking through my April copy of CU having read the bulk of it, and came across your blue pages section. In my search for Q&A I stumbled across an ad page and was horrified by whal I saw Next to the usual classified ads and 0839 computer-related phone lines in Sell Out, there's a picture of a woman sitting on a Pig's lap with the title 'Confession Line' above it. Quite what relevance these have to anything to do with computere is beyond me. Do you really think that the lods who buy your magazine should be encouraged to ring up and find but the story behind the sketch? Come on guys, give us a break and drop these chricksh knes. They don't exactly bolster your 'adult' Imega do they? James Corwin, Duilley

Hmmm, we can't seem to get Stave Keen off the phone to

#### RPG BIAS?

There seems to be more and more RPGs appearing in your magazine these days. At one point, adventure fans were lucky if they got a page dedicated to their favourite genre, but these days they seem to be butweighing aroade games, I'm not complaining, but it seems that too many arcade games seem to be getting left but of your pages in fevour of the RPGs. For instance, past issues have seen massive reviews of Dark Crypt, Casties, Eye Of The Bahaider, Shadowlands, and Monkey latend, whilst you seem to forget the likes of Bonanza Brothers, Elig Run, and Darloman. After all, if you had told me just how bad Darkman and Big Run were. I would never have bought

So what's the reason for this new adventure fad, then? Are you abendoning us arcade fans as you get more and more technical? I hope not, as your reviews are easily the one is agree with the most. So come on, give us some more arcade exclusives.

Peter Dialna, Wigen

Il'a not a conscious decision, but we do feel that so we are limited on space, we have to be selective in what we review - after all, them is only so much we can write in a month! The reason we ignored Ronenze and Derkman is that we fell they didn't warrant mentioning (eithough most magazines seem to think that Bonanza is the best thing since Fruit'n'Fibre - strange chaps...). As a rule - but obviously this lan't elways the case - If we don't cover a game, it's not worth covering, However, it you're still Interested in a title we may have missed, then go to the shop and try it before you buy it - it's saves a lot of hasrtache and money.

#### BASIC MATHEMATICS

What on Earth was the Mathyssion review about! Now I'm no expert on fractals and Mandelbrots (or what ever they're called), but it strikes me that they serve no other purpose than to look waird. I've been through your Mathyesion review at least four times now, and still can't work but what Earthly use it has Also, just how practical is a package which the reviewer freely admits can take hours to displey a picture? If you ask me. Mathyleion is a complete waste of time, and it didn't deserve the three pages you gave it. Especially, when two hard drives were crammed into single page later in the issue. In future, Ed much rather you left the fractal stuff to the ecid-head Hippies who appreciate it - preferably in another mag ...

John Bassett, Lincoln

Billimay, keep your hair on! We try to cater for all tastee in CU, and as fractate are starting to take off in a big way it's obvious that we bee a responsibility to cover any new advances—that very we can criticiae them it they are indeed useless and unwietely. This was the case with the Matchysion review. Yas, it does took good, but, as we said many times, what good is it? I'm sure fractal tans will argue with us, and if that's the case, they know the address...

#### SCREEN OF THE MONTH! PAH!

I've been reading CU for over two years, and it has grown as I have from a garnes-only mag to an allround Interest in the Arriga However, whist everything about the meg intersets me (atthough I'm left a bit berrused by some areas), there is one area that ready lets your magazine down - The Screen Of The Month. Who picks these? Stevie Wonder, by the looks of things Admittedly, April's ploay of the Fish was good, but some of the pictures have been no behar then a sevenvear-old's first attempts at using gravons. There were one in particular which stock is the mind it was a big ture of a tree drawn in grey, with a grey backdrop, and numerous othe shedes of grey. Why did this win? Was it the only entry you received? Anyway, whoever it is that selects them, shooting's too good for 'arr. Deen Metress, Glamorgan

it I were you Deen, I'd see them. Your charm school, that is...

#### **SHOWING OUT**

I much with interest the letter from the guy who said 'get down to a compute show if you want to get loads of folcheap," Yeah, the is all very well, but why is it whenever I go to a computer show I spend hours queuing (normally in the rain), and, by the time, I get into the hall or arena, it's packed to the gills with literally thousands of equally led up people. There's virtually no way of getting to the associed stands or stopping to have a look #1 what bargains are on offer, and if I so much as pause to be my lace up. I'm either trampled to death or swept along like a drowning bit-part actor in Baywatch (I just wish there was someone blonds there to recous mel). So what's the solution? Is there e way I can get past the massing crowds and get my freshly-aquired copy of Robocop RI home in one piece? If not, it would make me feel better to know that I may see you lot In the gueue, too! Michael Gingold, Centerbury

Nose, you've got absolutely no chanse of seeing as in the crowd as we've facturate enough to be given Exhibitor passes. If you desire one of these much awayfe after goodles, fast book a stand and you're wayfi flut seriously, if the goosus try your main problem, most

shows can supply sickets in sevence which serve you from the directed masses. You're attll going to get heasted and bumped linelies, but if you have a set the state at the sevence when the seve

 opens, you'll get as hour or so before the rest aguess in. There are slways ads to forthooming shwers, and ticket details are shown at the bootm. So simply send a cheque and – voltal you've snow.

#### A PIRATE RANTS

Once again, you're another mag that preaches on end on about how naughty we pirates are ' Tut, tut, also their wrist, what neighty people' you megazines really make me sick The reason I prate games is simply because I can. I'm not going to pay thirty mild for, say, Populous II II all I have to do is get a mate to run me off a copy - I've got better things to do with my money, I don't even agree with the so-called backers who say 'we only do it because camps are so deer, if they we're cheaper I'd buy more ' Bubbish, my collection has nearly every game available on the Amiga in it - budget releases Included After all, even if I save seven or eight gold, it's still more for me. I had Robocop III before it was In the shops, I had Rainbow letands before Ocean got it from Microprose

The segment field people file Costan and Microprose will go under because of people like me is complete crap. I stated with an Astel 8000L and all my games were copied then — Microprose ones included. And when I updated to the ST, I carried on conying What Tim saying as their properties are they would have gone under by now I'm and you won't game and will rever on about what is bed stof are, but that well stop prizery shout as much as well stop prizery shout as much as well stop prizery shout as much as the stop prizery should be the stop prizery should

You name it, I've got it.

will stop piracy about as much as Ocean's Robocop III dongle! 8. Nonymous, No Fixed Abede A. Nonymous – A. Pélock, more Reli

Year've abend original as you are clevor. You state that you we been explying games since you've owned an Blart. What are you after a modal? The min reseon the Attent Schlie silled Wata because of the fact of softwern evellsible for them—why? Because people copied it all the time. Be now tell us that it desert clemes the product yearing you pathwise you inflant your pathwise or partiting you faither we hope we've inflant your pathwise do — and shown others when germally you are.

# organised

When it comes to directory utilities, SID is among the best available. Mat Broomfield guides you through its inner workings.

### EASY DOS IT...

apeed up the operation of frequently-used AmigaDOS commands such as Copy and Edit.

mouse button

and Edit.

All but the simplest
AmignIDOS noutneer must be operated
AmignIDOS noutneer must be operated
involve lyping, you also have to remember the format of the many commands.
To combat this, ISI Uses an according to the commands acceptable at the mission commands acceptable at the click of a

#### MENU MASTER

MENU OVANA SEX.

Onco the program has baseds: The access in super size fine distinct areas. The largest two displays the distinction areas. The largest two displays the distinctions of host denses, while the most display distinctions puts the distinct areas. The more accession of the industry puts filled in a contract patholic path of the access. The more projectal path, however, puts filled in the projectal path, however, and the projectal path is projectal path, however, and the projectal path is projectal path, however, and the projectal path is projectal path in the projectal path is projectal path in the projectal path in the projectal path is projectal path in the projectal path in the projectal path is projectal path in the projectal path in the projectal path is projectal path in the projectal path in the projectal path is projectal path in the projectal path in the projectal path is projectal path in the projectal path in the projectal path is projectal path in the path in the projectal path in the path in the projectal path in the projectal

Lang these options, SID can pretom many usual functions As well as moving files from disk is disk. It can be used to see that the seed of the seed used to see that the seed of the and disk or one of the comment and disk or one of the comment and disk of the seed of the user to seed of the comment to user to seed the content of any attached Amiga drive, including fileral Direce and the SAM Disk. On a single offer mackine though, is will be subcreated the content of the comments of the seed of the seed of the seed of the market of the seed of the seed of the market of the seed of the seed of the market of the seed of the seed of the market of the seed of the seed of the market of the seed of the seed of the market of the seed of the seed of the market of the seed of the seed of the market of the seed of the s Beneath each of the directory windows, you'll notoe that the device names are repeated. This means you can view the directones of two dicks simultaneously. On selecting your drivit, after a flew seconds loading, the current window.

On seldoring your drive, lifer a live seconds leading, the current window will list the disk contents, and a consilient and a consilient will list the disk contents, and a consilient will allow you to move up and down the last them as robs of filers. As the names appear, they are displayed in read different colours, Any names with a number folioxing them, are the industrial filers, and the numbers dimonis their acce what shaded names are further industrials within must be opened.

# before their contents can be viewed. EDITED HIGHLIGHTS On clicking on one of the lated files, its contents will be invested so that it is contented with a lighter bar. The file is now selected and is ready for whatever.

concurs with our many factor of the file is now selected and is neady for whetever operator's you deem necessary. For instance if it's a text file, closing on the Read option will enable you to do just that and, similarly picture files can also he uneared.

Some hunderer (such as cony) can't be preferred with my div and decidely be preferred with my div and decidely be loaded, so such an effective must be loaded with the southern development with the loaded with the southern working windly withdaw. And the new side color load, so yell in the big some between the law development (such yell in the disposal development between the law development (such with a collect the figure with a c

snywhere within the other window using the right mouse button

Once you have two directories listed, you are ready to use the Copy and Move functions. Simply highlight the files to be capied or moved, and click on the appropriate button in the comment opsities Whenever you relect a file, its window becomes current, and of the copy and move command will transfer date to the other directory.

### SPEEDY GONZALEZ There are a number of ways that you

can speed up the process of calling a directory list. If you double dick on a directory name (within a directory window) SID will automatically replace the unrest signly with the continue of that directory. You can also quickly most! the previous teleting by moning the custor the seturnes edge of the current directory window, and clicking the left mouse button.

Above the flow errow, you'll notoe these buttons each containing smaller arrows, (< <>>). These tell you oppy the directory listings from one window, directly into the other. For example, if you click on the dight-lang arrow (>). the consents of the left-hand kindow will be applied to the other. The double arrow in the middle, simply awaps the contents of the leve widdows. Another way of calling up a directory, to by disking limited the Path Field, and typing the nature of the clinicalory you want to viety. (I having made sure that you detelled anything that was alrawed, there).

As inventored enter, the numbers of blooking is the numbers whom you of its some However, you can the out offer useful information, too. For instance, what foul of the they are on when they were created. To do the, but the service were created to the standard function are the solotion of the standard function and the service of the control of the service and the service of the control and control of the control of th

If you've multi-tasking SID with other

programs, you'll be interested to know that it can be awthend on and difficult or constantly relocating it. Simply click Stamic in the menu ben at the top of the access, and it will be included to a titry easily-ignored ber white you use your other programs. To reactivate it, click Expend to resione if it is in normal size. Next more than the size of the including at the size of the size

Next month we'll be looking at the configuration file and finding out how you can customies SID for your exact requirements.

choloes

#### ADDRESS BOOK

You can buy SID from any decent PD rotaliter, I got mine courtery of PO Soft, Bryant Avenue, Southern en-Sea Emerx, SS1 2YD, Prior; 2.50 (including P&P)

#### COMMAND SUMMARY At all the explanación the convitanti patette

ENT Louis the selected flack only a fact action ready for others.

\*\*POT\*\* | coals: the reserved flack only a real action ready for others.

VIEW Displays the antended RFF accesses. READ Displays the solution of Data.

INFAID Displays the network like in REAC and ASSOT NEAR Plays the network RFF settly life.

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this region EXECUTE Lians the Ambathous Discular successfully seem for this selected batch black OTHER A Abbot Act you be program.

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REMANE Colling a requester hilling you referred the selected fields.

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PROTEST Calls up a requester interpryou change this prolation status of the seasond t SET 4 mb you specify which protection late will be considered by AmigsEOS. SET Calve more detailed belt about the relacted fields.

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PATTERN Late you mitre a person to highlight estimate to the author directory window. For example, you water #7 stoc, all starfs shall and in stoc set his highlightes.

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# hard urivin'

If you're one of the growing masses who have got a Hard Drive, you'll be wanting to fill it. CU tokes a look at some of the better Hard Drive-instellable games currently available.

If the armal of the Amiga Flux and its 1Mb of nemony, many companies are beginney to cleen; their games expressly with supprinder machines in mind sound any just two of the animatages, when taking on the earth a SIZE, when regard as standard You might finish most companies are sating to regard as standard You might finish had edipating the size and outstif of games on the properties of guidely concerns a price Whist scame floorly users are contractions.

#### BIRDS OF PREY

Electronic Aris EA 69 Fight Simulation Chine of the finest flight some ever. Featuring discress of planes, including the B-2 Steath Bomber, Boeing 747 and the Harcuste strasport, Some thand the control However, all's not look as a useful authoritof system can by you to the germa's many missions before you take over.

#### BLACK CRYPT

BLACKE CRETP!

Blickmark And State Broth Jung Brevit, secularly capable, secular secula

#### CADAVER

Inegreeria (24.58 Arcade/Adventure Pays horrage to the outsitating sometric 30 garnes produced by Utilimete in the "Golden Age" of arcade/adventure. The Bitmap Brothers pack Cadavirds tive levels with quality puzzles and graphics. If only they'd added e bit more action, we would have seen a classic.

### CRUISE FOR A CORPSE

Deptined IS Gold ECS 88 Advances Gropping shall form the Parkiden and copping shall form the Parkiden and ware developer. An Agather Christiae-trijke murder mystory uskog the faralistic Chrismalogue system Hals been criticated by being a bit solve, but a faxed drive gone as kind the same of the parking of the way to restoring approach 5 stath on the same of the parking of the same day the Franch distinctive Raci, are upta efficial to discover at first, Choop you got min bit away of through thought progression is a lot resting-, and you can experience some of the farancia Frisch alternopleme with some brilliantly-executed animation scenes to mail Another World. Cruise is full of flair, especially the black and white "flash-back" sequences

#### DEATHBRINGER

Empire 123.89 Arcade New 15th Up.
Truly sturning graphes with over 36 levels of paraltax scrolling. The 30 levels of paraltax scrolling. The 30 levels that make up Deathbringer's world are support to look at, with concent fail and obtailed backdropps and a whole array of mondern, including a whole array of mondern, including a whole array of mondern, including a cluster of the society. The game is badly let down by its limited control over the backbrains warnor. The provise to be more finateristing than the game is entertaining.

#### ELVIRA: MISTRESS OF THE DARK

An excellent adventure which trilliers gory full-screen graphics and an ongrue job. The tabled female puts in a few appearances during this gents, so adolescents and true red-blooded men worth be disappointed. Much better than the seques, emply because if it is much more than

#### FLAMES OF

Microprose EX-99 Arcade/Sirately): Effectively Michaelse 2. From the original germals earther, Mike Singleton, Filamed Of Freedom is a technically aversome 30 adventure, with 1,000 intelligent characters to meet, dozeno of weapons and vehicles to use, and - 1,000,000 square miles of terrain to explore. This is the nearest a computer carrier has come to a surrow. Bond Movia (depending on your opmion of the spy's adventures!). One of the best seque's ever.

#### 4D BOXING

Mindacase C24.09 Sworts Sim The programmers have thrown everything they've got into 4D Boxing's impressive polygon graphics. The boxers look like those square-jawed computer removal men in Dire Straits' Money For Nothing video. The fourth dimension is eup posed to represent the realism obtained when playing the game, by the way. The simulation is very comprehensive and enhanced by the number of stats provided, Instant replays can be obtained from a num ber of angles, too. There are 40 boxers to fight, but a promising game is let down by the lack of visible damsoe you can see inflicted on your opponent However, it's still the best recreation of the sport on the home computer to-data.

#### 4D SPORTS DRIVING

Mindecape (25.99 Sports Sim Immediately comparable to Stunt Ca. Recer, Mindscape's version is not guite as good. Race against the clock or one of six opponents who range in skills and tactics from Bemie Rubber to Skid Vicious. The racing ponditions are just as glynrae, as you can go off-road racing or apin the loops and itemps on termac. Cartain sections will really test your skills as you have to loo 100 mph whilst spinning 360 degrees through the air to clear e remo. The courses have been guaged perfectly and there's a good balance between sturts and racing to make the game both interesting and a challenge. A replay facility lets you see the action again, and can be used to pick up tips. Rather than contesting with the eforementoned Stunt Car Recer for too billing, this is a well

#### GRAND PRIX

Micreprose £34.99 Race Driving Similar racing action from Geoff Crammond, the author of the award winning Stunt Car Racer. Beathsto, fast-monting and excellent 35 graph ics with up to 16 tracks for you to choose from.

#### HARE RAISING HAVOC Infogrames E25.00 Animated Adventura

A hard drive is an absolute necessity to have if you want to play this game — if a probably the first hard drive-only game, and a very brave gamble. Once you've got into the game it's easy to see wify. Cartoon graphics and digitised speech has been diseasify afted from the film Who Farmed Roome Rabbit and the back-

grannds look as though they've been crafted in Dieney's Hollywood-based Animation Studio There are hundrads of Iramas of animation and more objects to be found to interact with then Inside on Anna Summers boutgnel

#### LORD OF THE RINGS

Electronic Arts/Interplay £25.99 RPG A fabulous inferpretation of J R R. Tolkein's master-work with point and click toon interface and e series of graphic and text screens to push the fantasy forward. Arwone who's found themselves immersed in the Tolkein fantasy world before, will find this the closes) they we come to stepping into The little talks' shoes

#### **MEGATRAVELLER 1**

Paragor/Empire £28.88 RPG An entertaining and totally absorbing adventure expenence, besed around the popular RPG book. The game contains a huge amount of puzzles, some of which will lake you days to solve. However, be werned Megatravather 1 is not for the foolish and defindely not for the beginner, so only bettle-scarred RPG veterane need sooly

#### MIG 29 SUPER FULCRUM

Demark \$29.99 Flight Sim Ex-British Aerospace flight almniator team, Simis, created something for all you techie deak-top pilots. A firstrate package which comes complete with a 128-bace colour booklet full of information and photographe of the respected Soviet fighter, However, Fulcrum still needs an injection of energy for its lacking gamepley A few more missions wouldn't have gone emiss, either

#### PIPEMANIA

Empire 224.99 Puzzie The crazy puzzle game that's seen dozens of Imitators on the Poblic Domain circuit. The task is as simple as it is eddictive. Weller pressure is building up in the main pipe and is just abont to blow. You have to build a region of lubes for the water to go through when it eventually brists out of the tap. The different pieces of pipe drop in on you in random shapes so you have to think should and reserve sections you may need later, Great fun and leaves you thinking that you can siweys do better

#### **POPULOUS 2**

Electronic Arts 229.99 God Skm Using the same game principle as its popular predecessor, Populous, that sequel surpassed averyone's expectations. Try to become more powerful than Zeus by defeating the opposing hordes that would invade your continent. The more battles you win, the

more powers are bestowed on you King of Fire, and Invest in mastery of the winds or a combination of all the elements. An edded feature is the sudden appearance of different cree tures from Greek mythology who stride across the land causing havon indiscriminately. Two versions are available and 1Mb owners will be treated to even better sound effects and graphics. Fabrilous, you'll come back to it again and again so get it on your held drive now

POWERMONGER Electronic Arts 529.99 Strategy Powermanger le one of Bullfrag's games that's been totally thrown in the shade by the hupely successful Populous series Although often pared off with the guard God sim. Powermonoer is in lact nothing like its prestigions stable meter. You take the role of a ruthless werigrd who must bribe the meek, spy on the sinleter and destroy the destructible! This is a more realistic simulation then Populous and Incorporates such effects as nvers, hills and settlements. All the necnie, bettles and action are completely el your finger tips and can be rotaled around and

#### **ULTIMA 6**

Mindscape \$29.99 RPG Every game in the Ultima series is a mesterplace in its own right. The col lectors has sold over a million nrits. worldwide and won more awards than Walt Disney The basic core of the games revolves around the battle between good and evil and the latest eddition to the family is no exception. By far the best Ultima game in exislence and almost perfection in an RPG environment. Most other camer nate in comparison. You'll need at least 1Mb to run it, and of conree the tun is doubled by the nee of your

#### **PAILPOAD TYCOON** Microprose 529 99 Strategy

Build voneself a restroad empire in North America or Europe during the heydey of locamotion. Each territory has its own economy, products and resources. Players must choose the right train engine and rolling stock for the job and keep the equipment upto-date. The game has an exhausting amount of detail and depth

#### SIM CITY

Infogrames £29.99 Strategy The game that started it ell. 'God Sma', as cames of this type have come to be known despite the lact that they re not all true to the name's description, can be found in most software shops these days in a veri

ety of forms. However, this classic nrban planning simulation, although looking slightly dated against the modern competition, still cuts the musterd and so also evallable bundled with Populous in a classic nostalgle pack. Take the destiny of the world's greatest cries in hand and boild factories, eliports, fight crime, pollution collect taxes end balance the budget. lands so keep building if you went to

THE GODFATHER US Gold \$30.99 Shoot 'Em Up A classic example of the misnes of a film license. Probably due to no fank of their own, US Gold's Marioso spic bares little resemblence to the Brando/Pacino mesterpieces Dogged by copyright problems, this everege pletiom/Operation Wolf-type affait does its beet to recreate old New York with some fantastic back-drops and digitiesd sounds. However, with characters and the lough difficulty level, the game pulls on a pair of concrete moon boots from the beginning.

#### MONKEY ISLAND

US Gold/Licesfilm Games 125.90 Graphic Advantura

There's not much you can leach the George Luces team about creating lop-quality interactive enterteinment. This game is soperb in every respect gargeous graphics, seductive sounds and heeps of homour. The swashbucking pirels advanture has absolutely no typing Involved and Incorporates a terrific use of dialogue that's lun to read and refreshing to find. Once again 1Mb is required, but its memory extremely well spent.

#### WILLY BEAMISH

Dynamix \$34.99 Graphic Adventure Willy Beamsh spans an incredible 12 disks and not being able to store if on e hard drive would make playing the thing nearly impossible. Believe as we tried, forget about mapping the game, we had enough Ironbie Trying to keep track of all the flappies. Willy is a child of the Macnikin venety concisions and American, Bringing his way through his 'Wonder Years'. and win, the national Nintan video game championships. By going through the geme world and collect-Ing objects you'll get the youngster closer to his goal. As you might have guessed with this amount of disks the game is very graphic intensive and the smallest action takes an amezing amount of disk swapping and accessing. Even when running from the hard drive interruption of the game le so regular es lo render it e prime case for snicide. The linear

game play doesn't allow for any mistakes and often leads to dead-and situations. The enimations are Impressive, but excruciatingly slow and only those with the patience of e saint will let this product out of their house without it leaving on the inside

#### LEISURE SUIT Sierra E34.99 Graphic Adventure

The first of the Larry games were a programmers quickly did away with the type and the games have gons from strength to strength. The edvenessured that most of the fun in carried out with several longues thrust firmly into cavernous cheeks. With this, the lelest in the senes, Larry has really fallen on his leet, and whilst working for a malia boss ha is persuaded to host a new soft pom show where the host must locate the sleazeet old boller in America and lead her Into bed. With three possible candidates in mind Larry jets of immediately to find his woman Graphically and sonically, this is the best Laffer adventure yet. There's nothing that fens of the games will find new, except that it seems to be control system has been moderately improved noon and the game deserves to be in any edventurer's librery

#### HARD NEWS

#### **TOP 5 HARD** DRIVES 1 GVP 2 - Silica

2 BigHard - Diamond (52 Megabyles): £349 3 A590 Plus – Commodore

(60 Megabytes): £370 5 IVS Trumpcard – Dismond



Don't let your Amiga-related questions remain unanswered – especially when Mat Broomfield Is here to helo...

#### A PLEA FOR HELP



One of our most firm out of the de winds with a common of the de winds with a common of the de winds with a common of the de work. Do yellousty, we don't have any suggestions?

\*\*Provisition\*\* - Bundford\*\*

question-is not question to lest up my printer?"
Obvlously, we don't have access to diagrams and DIP switch settings for avery printer available, but that's where you come in...

If you own a printer, and you've got it working perctly (ie. printing gra se well se text), i'd like you to send in the following Information: the make and model of your printer; the emulation mode used; the DIP ewitch poeltions: the printer driver you use where you got it from if it didn't come with Workbench; and enything else that other resders might find useful. I'm espe clelly keen to hear from you if you own on unuous or obscure printer. The Information will be compited into e definitive printer database which will then be used to help other readers on the need erises

### you're helping your fellow readers lan't anough, we'll be giving a tree subscription to one of the people who writes in. MAC EMULATOR I purchased on Amiga 500 at

As if the knowledge that

I purchased on Amigs 500 et Christmas with a view to doing some of my office work at home. I was under the impression that it was easy to transfer files from one

machine to enother, but for the life of me, I can't find a way to get filtee from my ASOs to the Macintosh et work. Do you

Them are two solutions that soring to mind. The first one is to buy the A-Max // Macintosh emulator for your computer. It constate of a small interface which plugs into the exte nel port, end into which you can plug a Mac drive You'll need to buy the Mac ROM chips, evetem disks and drive separately. As the complete set-up comes to over £350, you might prefer to look at buying a Mac cleeeld, which costs

roughly £600, Alternatively, transfer your files vie a PC diek. All you need is a blank PC disk and any Amige to PC copying utility, (MessySID) 2, for Instance), Copy the Amiga files onto the PC diek, and use the Mac's Apple File Exchange utility to transfer them. You can buy A-Mex II for £189.95 from Entertainment International, Unit 4, Stennets North Trade Centre, Beelldon, Essex. Tel: 0268 541126.

#### DELUXE PAINT

I've been trying to learn to use DiPaint, but I'm not having much luck. I heard that there was a subdisal video available, is the true, and if so, where can I get it from? Mitch Morgan — Worthing, East Bussey.



able, and it's called The Derices Paint it Tutor. It's nearly three hours long, and ocurs all the besics, from menu selections and brush crastion fo animation. It costs 22,95 and is available from Audition Computer Sarvices, 35 Broad Street, Stamford, Lincs, PE9 19-J. Tat. 9780 SSE888.

#### RINTE

I find il impossible to print any of my work from DPalet Ill I have a manachrome Epson printer which works well with everything also, but when I by to output from DPanel I receive the message 'Car'l open printer



Secondly, can you tell me which is the best DTP or word processor which will lat me print text and graphics on the same page? The results must look professional, but 1 don't have much morely to spend.

Dezem Button — Spelding.

Damen Button -- Spaiding Lines.

To print on timega, the disk from which you loaded OPaint must contain three filter e printer device, and a system configuration file. The printer device, and a system configuration file. The printer device filts the computer which printer you own (Epson, Gome, etc.), and can be found in the OEVSPENIERS discolory. The printer device is used to ensure that only reference.

vant Information is sent to the printer and it lives in the DEVS directory. The system configuration file tells the computer which printer driver to use, and is created when you set the preferences, and it also neildes in the DEVS directory, it any of DEVS directory is any of DEVS directory.

The sealest way to get them onto your Deairy diek is to copy them from a diek that you can elimedy print from. Alternatively, if you boot from a diek that works (your Workbanch eliek for szenple), and load Deair from them, your art package will such entitled just the preferences and printer configurations from the boot diek.
Most DTP or graphic

the boot date. Most DTP or graphic word processor packages cost upwards of tilty pounds, and the best of these for pure DTP is Professional Paga, and Pagalo word processing. However, Amgafack is a Pod offering which is reputed to be OK, and only costs a pound or so. You can get it from NBS (disk #UHR) at 1. Chain Lane, Newport, IoW, PODS SCA.

#### STOCK

I'm using an ASOOI in my office primarily for word processing and some Ilmided databasing. As I own a garrage, I was hoping that I could also use It to halp with our accounts, I was looking tor a package which automatically.

matically generates fevoices for our parts suppliers. Do you know of any sofieble packages, and,

you know of any sorieble packages, and, if so, who can I purachse a copy from? Richard Venebles - Tankersier

Yes, System 3 will do whet you went end more. It handles stock control, aske ledgers, cash flow end, of course, involving, it costs £59.9° and you can buy it

from Dighe International Ltd, Black Horse House, Exmouth, EX8 1JL. Tel: 0935 270273.

#### 2.0 UPGRADES I'm a little confused by the officerences between the new

Amige Plus and the older 1.3/1.2 machines I understand that e new Kickstart ROM and Workbench is

Workbench la required, but other than that I'm in the dark. Can my old

Can my old Amiga be upgraded to a Plus, or do I have to sell it and buy a naw one? What's all the talk about Internal and external HAM and fast RAM? How exportant is it to own an Amiga Plus in terms of the new aothers that's coming

David Roberts - Treawn, Wales.

The new Amiga Piue features e number of reajor anhencements, including the ability to use up to 2Mb of chip RAM (for better sound and graphics handiting), an improved DOS and Operating System, and calebie font support.

For games pleyers, the 2.0 doesn't reelly make that much difference se most games ere written to the epecifications of the older machines. However, 'serious' users ere genersily vary impressed with the new machine, and find it much better to use then the older Amigas.

The 2.0 upgrade kit won't make your ASO0 fully compatible with the Plue set fonly includes the new Klakstart chip and Workbeech dalsa. To take advantage of all the new features (sepacially the higher emount of Chip RAMs), you'll also need to buy new ECS Denies and Agnus chips, which cost 57.55 and Colt in expectation.

You can buy the chips from CPC, 180-200 North Road, Preston, Lancashire PR1 1YP. Tel:0772 555034. You can buy the 2.0 upgrade kits from Silica Systems, 1-4 The Meyes. Hatherley Road, Sidcus Kent, DA14 4DX. Tel: 081

#### HARD QUESTIONS

It I were to purchase a GVF hard drive, would it be necessary to upgrade my half meg A500 first? Also, what upgrade would you recom mend for the herd drive? J. Mondows -



(filename) <return> Substitute the name of wouldn't have to unorada your compute first. You can add up to 8Mb of memory on the GVP drive, and I would suggest that either 2-8Mb is a masonable starting place. If you're only playing games, you're unlikely able. Scribblel is my to need more than two, though. Remember, if you're going to upgrade to the full 8Mb, you must use 4Mb chipe se you upgrade

#### VANISHING ACT

Lecently bought an A500 Plus and a Commodoru 1230 printer After hours of living to use the priviler, I just can't get it to work. I copied the Epson X printer dover onto the Workberich disk from the Extras disk, but



as there was with older

Amicas. I've been told that I may have to buy a word process ing disk, is this true? is them arry way that I can use the printer with DPant III. because it's got to be a lot cheaper than buying one? I've tried printing from it, but when I select 'Print' from the menu, all I get on the ecreen is 'Cannot open printer driver'. I have a copy of someone else's Workberich 1.3 disk, will that belo? M.Eyre - Gools, North Hamberside

There's no reason why you need Notecad to make your printer work. It's besically just a third-rate word processor and was probably omitted from the Amiga Plus versions because it was so dire.

You can create text flies using the MEmecs program found on your Workbersch Extres diak. Once you've seved a file to disk, you can print it by opening a Shell or CLI window and typing: PRINT

your the where I've written (filename). This almply out puts your the to PRT: the printer device, but doesn't support text styling such ne bold, underline, etc. For that, you will need a word processer, and whilst there are many good ones availpersonal favourits, and can be bought for less then £30. Better stilt. CU geve gway a free word proces

sor called Text Plus on the December '91 coverdisk. As for printing from DPaint, refer to the raply I gave earlier (Printer Devices), to find out what's anina wmon

#### SPEEDY SHELL I've recently purchased a

1.5Mb memory upgrada for my Amics 500, and I was wondering if I can use this safra memory when using Shell I was



C directory into RAM, and also tell the computer to look to the RAM disk for the C directory. This would save time for

things such as file transfers because with only two drives. I'm forced to keep meering the Workbench disk every time I by to copy from any other disks. Graham Allisop

retermends, Northern Ireland

Programmers often copy frequently-used commands to RAM to save time, and the new Amigo Plus even has some on ROM to make things quicker still. All you have to do is open a Shell or CLI window and type: COPY C RAM: <neturn> ASSIGN C: DAM: crehams

The computer will now automatically look to the RAM disk for all C com-

#### ARCHIMEDES EMULATOR At the moment I'm studying

for my GCSEs and next Sectember I hope to go to aidh form college to do an A level m Computer Science Apparently the college

Archimedes, and we'll be programming using C and Basic. At the moment, Lown a 1Mh A500 and a sec-Archimedes emplators available for the Amics. preferably PD, or could I armply program on the Amiga and transfer the Nes straight over to Archimedes disks? Please help or I may have to

D.Ames - Famborough, Hanks

To the best of my knowledge, there are no Archimedes sraulate available for the Amios. nor are there ever likely to be, because the Archimedea works very differently to the Amiga and features Reduced Instruction Set Chips (RISC) - If would be like

trying to get an Amiga argulator for the Commodore 641 Having said that, both C and Basic are fairly stan derdised languages, so there's no meson why you couldn't use your Amige to work out programs for college, print there out, and edept there to the specific

irements of the

Archimedes, C source

te consists of a star derd text file, and I'd be very surprised if you can't find a way of converting that directly to your college machines. Can anyone help?

#### O SPEAKEE COMPUTERISH

I'm fourinen years-old and have tried programming in Basic, but now I'm thinking of grying up to try machine code The



reading and understanding thebooks that are supposed to help you learn. They use a lot of words which they don't ecology, making it very hard to understand. Can you recommand a book that would help me to understand machine code, and how to program gemes? Wity do programmers use mechine code enteed of Basic, what's the difference? Richard (No Sumanne Given) -

Many people have trouble understanding Teach Yourself type hooks, and a number of publishers have produced books which are cealer to uno stand. Machine code (annually) is the hardest Amiga language to learn, so if you're having trouble with Basic perhaps you're not yet ready to try assembier, C could be a better

Programmers use machine code instead of Basic, ne it'a more powerful and allows access to many features unavailable in Basic, Whereas Beeld uses Keywords and expressions which are in Enotish (Let e=13, for example), at beet machine pode consists of pneumonics which are not very easy to understand (LD A 13).

If you're determined to learn machine code, you may be interested in the the Abecus title 'Amige Machine Language', which you can order from most high-street bookshop. If you change your mind and on for C. 'Mastering Amigs C' to one of the better tities, and can be ordered from Bruce Smith Books, PO Box 382, St. Albene, Herts, AL2 3JD. Tet: 0923

#### STAR LC24-200 DRIVER I'm currently using my A500 with a Star LC24-200 colour

printer I'm using the Epson O printer driver, and, whilst perfectly
acceptable
results, I w results, I wondered if the

improved if I used a

I C24-200 down sostead of an emulator J.M.Jervie - HMS Rooks,

I'm not sure if there is a specific LC24-200 driver evallable, I doubt it. However, If the printer can emulate the Epson X series, your output la unlikely to be improved anyway. The best way of improving the output of any dot matrix printer, sepecially a colour model, ta by using an invaluable program called Flexidump. which is available from Care Electronics, 800 St Albane Road, Garston, Watford, Herta, WD2 5NL Flexidump features optimilled colour and monochrome printing, and uses improved drivers for all common dot matrix printers

#### CLIPPED ART

I recently purchased a set of dip art disks from 17 Bit softwarn, and although 1 can load them into Kind Words and DPaint, I have problems



image. Also when loading them into DPaint. the colour palette changes presumably because the images are supposed to be



black and while, and are not Intended for coloured output? J.M.Jaryla - HMS Rooks.

Most clip art is seved in medium resolution brush format, and includes a single Image ready to Import directly into your DTP peckage. The 17 Bit stuff includes acreens containing lots of Images, which need to be cut out se you require them. The sesiest way is to simply load them using the Picture/Load option from DPaint, and cut out each image as you requim it using the Pick-Up Brush icon. The new brush can then be saved via the brush menu, and can then be easily imported into your DTP package.

DPaint's peletts autometiasily changes to that of the screen being loaded. (but not if it's loaded as a brush). As most slip art is black and white, your assumption about the naiette colour change is correct, However, you can always increase the number of colourn using the Screen Format option. If you want full-colour ellp art, just colour in the stuff you've already got!

#### DARK

I'm having a little trouble with e TV monitor I have bought. All my monitor was getting # bit old (and parts of it started falling offl), I decided to buy a new one, end opted for a



Them's only one proclem; the brightness, contrast and colour eettings can't be altered when in computer mode. As many of my gemes are a bit on the dark side. I

often find that I literally can't see a thing The shop didn't have an answer, nor did my local electronics store Perhaps you can offer a solution? Jason Fairley - Bernnel

I can offer two auggestions, eithough I can't guamntee that aither will provide a solution, Most monitors and TVs that accept Scart Input, allow the adjustment of the brightness and contrast of the picture, but not its colour. Recently I heard about a range of Mitsublehi TV/monitors which requim a special type of Scart lead In order to register the full presence of the computer signal. These leads include a custom chip called a Junole Chip, which epperently solves the problem. They cost about £16 and can be bought from Maedmore Ltd, 28 Farriers Way, Netherton, Merseyside, L30 4XL Tel:

051 521 2202. Alternatively, American company The Memory Location, manu factum a special lasd which increases the volt age (and consequently, the brightness) of the RGB sig nal. The lead in called The Video Crisper and costs \$25.00 plus import tax and VAT, and can be ordered from 396 Washington Street, Wallesley, MA 02161, USA, Tel: 0101 617 237 6846.

#### WHAT CD ROM? I was mading the January Issue and I noticed a letter from Steve Franklin in which he said something about the

A890 CD ROM. What is it. and what does it do? Nick Martignetti - Truce Cormesii



released RON Amiga. If plays read-only CO ROM dieke which can contain over 600Mb worth of data, and is essentially deelgned to turn an Amige Into a CDTV.

incidentally, It's now been renamed the A570 so that peopls won't confuse It with Commodore's nev cut-down Amiga, the A800

(due to be missed in

#### May). C WHAT!

While reading the January issue of Cit. I came across a review of a PD utility called 'Sozaben C', a program for writing C programs as far ea I can make out. In the rayses it says 'C is one of the most popular languages on the Amiga. Offering the power of



assumed that C programs were those things that you find in the C directory on most DOS disks, so I riadized to load one 1150 a text editor. I losped MadPleser, a C program for loading and playing MED tunes. Expecting to see no mom then a page of writing containing some variation on Basic, you can Imagine my surprise to find three pages of ASCII gobbiedygook! Now If that's what you call nlightly harder to learn than Basic, then I must have learned a different varsion of Basic to averyone sisel is this whal you have to write in order to create a C program, or is that just the compiled version that the Amina made, or have I just been completely misled?

Kevin Whittaker - Crook,

Yup, you've been completely misled! C programs have nothing to do with the stuff in the C directory. The programs are written using en ordinery text editor, and they use 'proper' words such as 'define', 'case', etc. This text flie is then eventually compiled into pure machine code which rune at optimum speed. The Amige's Operating System was written in C. but if you looked at it, it would appear much the asme se the MedPlayer file you looked at - a meaning-

#### less jumble of numbers AMIGA PLUS COMPLAINTS I'd just like to say I'm truly

appailed by the fact that Commoders should bring out a new Arriga which isn't fully compatible with ALL soft-

ware I am, of course, referring to the Amiga 500 Plus, and I begrudge paying £400 for a brand new



spend Enother 280 on 1.3 ROMs a Hedges - West Yorkshim

To be fair, the problems are not entimly due to Commodore, Any comp nies who em interested in developing Amige software asn purchase a devaloper's pack which carefully outlines how they should and shouldn't program the computer. Provided developem work within these guide-lines, softwam will (theoretisally) remain competible with all future versions of the Amiga. Unfortunately, to squeeze the very best but of the machine, program mers often lanore this manual and do their own thing, to their ultimate

#### AMIGA PLUS

Do you know of any version of Soundtracker or MED which works on the A500 Plus? I have two, Noisetracker and Protracket but neither works. Is MED 3.0 better then the Noisetracker variants, and it

so, in whal way? le MED e compatible with most samples like Protracker? Kevin Whittaker -

Creok, Cumbria

Protracker 1.1 and 2.0, and OctoMED 2.0 and Note: certainty work on the Amige Plus. MED is much better than the other Soundtracker clones in every way, it provides more powerful editing facilities, accepts a wider

range of samples (synth sounds, rew, IFF, Hybrid, S octave), and gives you a wider selection of special effects. It's also capable of loeding Soundtracker-com petible modules. The lates varsion, OctaMED Pro, la due to be released shortly. and can be purchased axclusively from Amigenute United, 169 Dais Valley Road Hollybrook, Southempto SQ1 5QX

#### SID HELP! I've recently starting messing

around with my Amiga with an eye to producing amphica and perhaps even moving on to coding, However, all my pictures and pethetic code attempts are scattered on millions of disks, and I've started to lose track of what goes where it I had the time (or the Inclination), I would sit down and plough through them all, but it seems such a thankisse task I honestly can't be bothered. So in there a utility which will enable to to select key data or pice and dump them individually from one disk to another? Actually, If it was fairly chesp, that would be a major

len Guince - Portemouth

The perfect answer to your problems is called SID. This useful little utility will anable you to load up two disks, scour their contents for what you want to take off and then dump them on to a fresh tioppy for later use. It asn hendle victually any files, and is axtremely guick. Make eum that you've got two floppy drives , though, or you'll run into diak-swapping

That's it for enotine month. Don't torget, we're not just here to help, If you've solved a problem that may help someone alee, drop ms e line, and l'li be happy to sham your

#### ANY PROBLEMS?

If you have any questions of a remetely micei nature, we'll do eur hest to enawer them. Send your letters to: Q&A, CU Amige, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

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### Doctorin' the disks



You've seen how a disk works, you've seen why it works. Now, in the final part of this monumental series, Nick Veitch takes a look at what happens when they don't work.

#### LATE NIGHT CRISIS

I'ill be late it's always better when it's late. And you'll be tired, that's just the way it goes. It may even be your fault is alties loo gulde all the eject but ton, or socidentally dropped from an upstains window. Anyway, however it happens: wherever it happens, sooner or leiler you're going to get a disk

#### DIAGNOSIS

The first limiting to do a to discover whether there is in lock any hope or entirelying any of the date. Recoverable damage is the sunf of demage caused by the date being near a west magnific flast, o more vive attack. The Arrival soleng time of whether the date was writing specifing the disk before whether the date was writing specifing the disk before AntipaDSO was finished with it or acclusively state. AntipaDSO was finished with it or acclusively state of AntipaDSO so convening you don't nearly want it to do, Non recoverable interesting the date of the first position as or of earth Penna invocally the size size if the first, and capping the date in vivial to appropriate as or ordinary and capping the date in vivial to appropriate and ordinary and setting the date in vivial to a date of the first, and capping the date in vivial to appropriate date in vivial to an entirely.

If you have a vegue idea of what is wrong with the click it will help you in lying 10 get it is open that thing planning with the best of them again. The next stage is to run a copy of Paridski. What do you mean you don't have a copy? On well, you're subfled then. I mean, you could so't all the hanh table enthree (see part 2) using Disck? or another hax editor, but it would take a very long time. Get Paridski, it is wellable from any good PD litrey.

Whetever you do, don't use Diskdoctor, the "Will

By provided with Workbench, if a quack, a sawbones, a back-streel abortonial. If you were on desart listed and all you had was a floppy of Disidector and e damaged disk the same thing to do would be to write 'sand me Factisk' on Disidector's tabel and staff it in a bottle.

#### THE OP

If your error is simply a validation error (the sort of error caused by accidentally jurning off the machine wheth the data is in motion) than you have no real worker. Florisk will validate the data by going through the blocks and resetting the checkeaum for each. In fact, if you are operating under Klickstard 2.0, the system will elternot to validate by disk for you, smore this courbe is to the 2.0 PLOM.

A more disturbing occurrence is a read/write error. There are two types of these in the first is when AmigaDOS comes across a linck that has some physical demaps so that the data is impossible to read—and there is very tatio which can be done about these. The second type of read/write arror is when AmigaDOS can physically read the



Phillips resold energy block on the star to get an events ray or an illust - purpose or deleted - properties the office.

disk but it pan't make sense of it.

As we have seen, the actual data stored lan't simply a stream of cumental data, a lot of the information stored on the disk is organisational in seture, the studi which talls AmigaDDS where it's oping and what to expect when it gets there.

If you have a read/write error, Flocks will amend to fixed a copy of the date. You may be keep a different for fixed a copy of the date. You may be keep and find that only the CRC. (Cyclic Redundancy Check oc checkscum) is deauting bother, in which case you will not have best sity cases it may be a good idea to displainly your date, audity. Xoopy film. It is possible and the date for the date but have. If his way you may lose some of the date but a file and Antiga XOO will be able to read your disk willow like and Antiga XOO will be able to read your disk willow like you readporting.

Files with blocks in the danger zone mity be a bit wrecked — resembler seeh block points to the nast in the chain. If one block is damaged. AmagaDOS may not know where to find the next in the chain. But, as I'm suts you remember from last monit, the life header also contains the informetion, so in effect you have two ways of finding out which blocks go where Furdiev will give you the option to reconstruct a file from the header or from hands little.

If you have aimply distinct a file you wish you what, then you may be in lock. When it file is deleted, the stocks themselves don't disappear, AnnigaDOS aimply memous that filt is early in the directory AIF plottable or any other truncitions routine to the season, the call to the stock or any other these to do its earth, the disk for the Randar, AS long as you haven't served any other first to disk with the aarm same and as long any other which the same same and as long and of the season in the season of the same and a season of the season of the same and a season

#### THE RECOVERY ROOM

You can rever really fruit a consi-instituted diskgraph. By on here a more shore (physical damages) the best throng to cole should intermediately. Don't leave it light greated where you may be turnifeed to use it again. If you do have some damage on your data their you can be a formation of the shore of the cole and their your data their you can be a formation of the shore of their data their you can be a formation of the shore of their data their way are a formation. One data their data

So, there you go. You now know what to do with your sameged dista. — gat Fixeliek Dk, so we could have told you theil in the beginning but thei wouldn't have been much fun. At least now you know what Fixeliek is doing white the drive light is fashing. You never know, someday it may asve your data.

The state of the s

### 



'BYE, 'BYE BASIC

it can't have escaped your notice that a lot of applications are proudly procisiming Affects compalibility. So what is Affect and what's the fuse? How is it possible that a mare scripting language can meen so much to so many? And why is Commodors releasing all Workbench 2.0 mechines with ARexx instead of Besic?

Affects (which is pronounced "A <peuse> Rex") to nothing more than an interpreted language. It's a varient on Reiox, which were used on some IBM mainframes to write utility macros which would eutomate a repetitive or complicated sequence of tasks. ARexx keeps the keywords and syntax of Rexx but edds lots of Arriga-specific code and library calls which allows the user to call up prope

Perhaps most misresting of all, Affect a e typeless language. Unfortunately, this doesn't mean that you don't have to type it in, it means that there is only one kind of variable, in the case

CONSIDER THE FOLLOWING:

/\* Concet example \*/ Text="hours from Tuise" Time=12 string = 2"Time Text SAY "My favourite song is" string

THIS WOULD PRODUCE:

My levourite song is 24 hours from Tuisa."

This example shows off many of the lenguages littie foibles. First off, every ARexx program or macro must begin with a comment. This is an attempt to force the programmer into writing at least the minimum amount of documentation. ARexa refeirly easy to understand, but there are few things more

ennoying than having to run a program before you can tell what it does. OK, so the filename may give it eway, but if you're like most med programmers you probably have drawers full of experiments lentatively named 'piop', 'ploppy' or, in rare cases,

The second interesting thing is the variable declaretion. Notice that we haven't put in any funny deliar signs or otherwise declare the string specifically as a string or the number specifically as an

Integer, floating point or whatever The next line does the Irickey bit - multiplying the number by two, adding a space and the string to the and Note that there ere no data type trans ters required, as all vertables are created equal. In lect, much to the disgust of other is navege programmere ARexx is case invensitive

MULTIPLE PROCESSES ARexx wes designed to enable end control the flow

of Information between different tasks on a multitasking computer. This means it has a wealth of complex and powerful string operators which can be built up very easily. It elso makes it particularly suited to the Arriga. As everyone should know by now, the Amige Is

e true multi-tasking machine -1 e more than one back can execute instructions simultaneously. What most people don't realise is that this muti traking is going on most of the time, even if you are just runring en epplication from Workbench.

in order to keep track of wher's happening all the time, AmigeDOS has a system of ports and

To start off our regular series on how to communiceta with your Amiga, we take an in-depth look et ARexx, the powerful scripting languaga which can cure terminai Schlzophrenia in your work and applications.

addresses. This means that all tasks can have a 'pigeonhole' where messages can be seril from Workbench II is extremely easy for ARexx to set up a port to handle the flow of Information from any other application which has eleo opened a port This means that AFlexx takes a role rather like the ol a General on the bettlefield - it accumulates Information from other tasks and acts on it - send mo out instructions to specific tasks or sometimes just to any task that is kalening

ARexx may be very small in itself, but the overheads in memory terms of satting up a large message and port structure means that, unless you have 1Mb or more, you'll find it difficult to Inter act with professional application software

SADNESS: PART 1

The good thing is that ARexx was included with Workbench 2 0, so everyons who bought an A500 plue has got a copy. The sad thing is their many of them are not aware of it lurking on the Extree disk Commodore have made no real attempt to provide e menual or guide which would actually leach people how to use the thing. Most people don't even know how to taunch an Affect script from the CLI (type "TX <space> friename")

There are several books evaluable to guide both the povice and the veteran through the complexi ties of ARexx - and, although it's very flexible, Intuitive, and logical, it can be quite intricate whe it comes to balancing leake. The best for new users is probably the Abacus title 'Using ARexx' which comes with a disk and is moderately priced

(for a computer book, anyway) at £27.99
If, however, you are financially challenged then we strongly urgs you to stay tuned to this space where over the coming months an emazingly intu itive and easy to understand guide to the Amiga's script lenguege will be appearing. As well as explaining the workings and structure of the lenguage we will be demonstrating programming

techniques (useful in any language) and provid examples on the coverdisk for you to try in the privacy of your own disk drive if you want to improve your understanding of the Amiga and how it works. we'll see you here next month.

## language...

#### RECUR(RECUR(RECUR(SION)))

Each month, we'll be trying to give you a hirt about a programming brichingue. These tips may not be specific to any principal regregate but since the is the first in an occasional Artexa sense; it easins that the first example should be in Commodoral a wonderful sorging language.

A riscursive elgorifore is on ewhich is called agein and again as pert of a freezive process. Why bother Well, flaration is a lechnique used by mathematicans when they are in a burry. Instead of solving a problem by pure algebra or calculus (which can get a bill bioloy), hip prefer ansasting up on it—sking a queen and seeing how close it was to the schall answer, before modifying this guess.

and living again until they get it right.

The eligorithm here is not an Iteretive process, because they fund to be so complex their the actual programming technique would be lost. In this routine we are aimply calculating the factorial of a number. This is defined as

NI = N \* N · I \* N · 2 \* . N · (N · 2) \* 1

OK, so we could construct a FOR loop and multiply successive values of in until we got the answer, but that lant as elegant and it is dangerous habit to get into — for some programs you may not be able to

#### HERE IS THE LISTING:

/\* factorial processor allowing the use of \*/ /\* a self-celling recessive reating\*/

say "Okay, what's the number " / " gal number " / snewedact(x) /" call tac renting " / say answer " / " suboil snewer " /

f /\* autoni anssept \*/ /\* and programs \*/ \*/

(\* factorial pracedure\* / fact PROCEDURE AAG z P

ARG z /\* pass arguments \*/
(F z=1 than Reinra z /\* don't call let if metalvar is 1 \*/
/\* (Lesterial of 1 is 1) \*/
/\* Talls breaks the recurrity ovels \*/

ELSE z = z\* ( fact(z-1)}

/" the factorial of a is n° (ac(a-1) °/

#### RETURN Z END

This first part of the program is fairly limitervant, It's besically a front and to accept an input and call that fact procedure. The first line of the function Arg 2 is simply the way that values are passed between the main program and the procedure. The variable "2" in the procedure is a local varieties which accepts the Intitle Views of "2".

After checking to see if '2' is one (in which case the value of '2' factorial is 1 and this enswer is returned), we then proceed to the main engine of the routine.

reliamed), we then proceed to the main engine of the routine.

We know that the factorial of n is equal to n times the factorial of n-1 ( a g, 31 = 8, 41 = 4 \* 3 \* 2 \* 1 = 4 \* 3t = 24), so we just use this to calculate

2.1 = 4.31 × 24, so we have the time to colourly the arrange. What will have been continued to the arrange what will have been a continued to the arrange what will have been a continued to the arrange will be called again, this time of products in specification will be called again, this time of products in specification less that before This products in specification we ask for 11 (which, or course, in a specification call cath also return e value and according to the time of time of time of the time of

#### NO COMPLICATIONS

Coxiously, their a going to take just as long as per forming the operation in a loop and can run up huge memory overheade (if your number is neally bug) but, as stated belone, this is merely to show how recursion operates. There is a contain astinlaction to be derived from letting the problem solve itself, in complex treative processes the recursion shorthings in assembla and enaier so understand, not to mention less complicated to write in the figs.

This liability does not provide for error checking. So if the number related if not a possible integration on it is not more antiented in not a possible integration on the number of th

#### **NEXT MONTH**

We'll be examining ARexx in more detail and discovering how to deal with melti-process communications.

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#### MID | Interface



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video fades External colour, contrast and lemmanauce centrol ter allows digitised images to be grabbed from camera or revorde keybole effect. PAL Genleck £349,99 Also available to no HAR SAMS FAMOR

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leatures and performance you would expect from a Supra product. Support of upto 9 megabytes of compact side filling drive. Performance that leaves all competitors in the dark age. Bus pass through the SCSI out. External SCSI address selector Superb software with auto format and backup

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and software backup system that Fast DOS copies copy in Assum Verify option. The only hardware googe capable of venivana detail



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Quality artwork is one thing but how do you transfer that quality to your DTP document? Nick Veitch investigates how to put pixels onto paper.

#### PICTURE BOOK

It would be a pretty boring publication that had nothing but words in it - I know I've read some of them. A little bit of artwork here and there can make all the difference to the reader. Even if you don't use photographs, there are many ways you can liven up your document with just computer drawn linstrations

Artwork is also very useful for filling space There is an ancient Greak myth about a chap called Procrustes. Now, this gny was a bit med, so the only things he lived for in life were his iron bed and his large axe. On weekends and bank holidays, Procrusies used to heng out on mountaino: paths and kidnep people. When he got them home, he would put them on his bed and do e bit of measuring if they were too small for the bad he would stretch them a bit, and il they were too long if was party time for mater sixe, but if they litted just right ... well, of course, no-one fitted just right It's the same with the copy in any document you care to write.

Artwork is very useful because you can always make it bigger or smeller or chop bits off, or even

stretch it in cartain circumstances BUT WHERE DOES IT ALL

The Irouble most people seem to have with edwork is where to get it from Well, the simplest pieco la obviousty to use OPent. Although version N doesn't handle 24-bit images II can use HAM (which is roughly equivalent to 12-bit) and should be more then edequate if you are only outputting mono or using a dot matrix colons printer. The only

Irouble with this is theil you must be able to draw effer egme feshion - basides, you might want just a picture of a person or a padicular object Here we come across a common problem how to get something from the real world into the domain of the computer. When it comes to artwork yon have two choices. The one you are probably

most familiar with re a video digitizer A digitiser looks at a video image, samples it (in much the same way as a sound samplar works), and then reconstructs the image into an Arriga display mode. This means that a lot of the colour data from the original is lost, but once equin, it isn't ready going to matter if you only want to print it out In block and white

To confuse things further there are two types of digitisers. There is a plein digitiser, like the well known Diginow, and then there are grabbers. A grabber is e special type of digeser, like Rombo's Vigi system, which grebs eli the information in one go. The internal electronics are elighely more complicated, but assentially a grabber is just a very fast drgliser

Which is better? Well, plein digitizers usually give better results because they can more eccuretally enalyse the date over a period of time Unfortunately, this means you need a very all: video image to begin with - so you're going to have to bny a carmera. With a grabber, you could just as easily greb images of the video or the TV (but remember you could be inlringing someone's copyright if you rise It in your publication) although,

presnming you want a picture of your pet cal, it will be a bit easier buying a camera anyway rether Ross. Aside from allowing you to grab from video recordere, a digitizer will also mean that you don't have to rull your pel cat to the floor while the imege a grabbed (e normal digitiser can take eround 10-15 seconds to digitise one full frame).

A camera needn't be expensive either For a stari yon don't need e Camcorder, just e camere In the old days when video recorders were still new and very law people had one, you could buy video cameras jo go with them. These were inst camere node and had to be estached to the VCR if you wanted to record whel was going on They drint catch on too well because early VCR decks weren'l exactly portable and not many people could think of potentially interesting films they could make me five-yard redus from the comer of their living room. Some of these early cameras have snrvived, though, and can be found in those lunny backstreat electronic ehops that you can only ever find your way to once

A better bet is the growing market in security equipment. There are lots of Closed Circuit TV systems around that rely on a cheap black and white carriera. Dkay, so it's cheap, but it's quality is probably still good enough for your newsheet or whatever, Mapline (0702 556001), priveyors of quality stactronics to the cognoscenti, are offering a high quality mono camera (which even supports Infrered) for only £129 95 - e fol cheaper then any Camparder You can gel colour cameras as well.

#### **SCANNERS**

The other method of real world date capture is via e scenner A scenner is a bil like a short sighted digitiser and camera built into one. The optical scarring device actually comes in contact with the object to be scanned (usually supereted by e piece of glass or plastic). The first obvious advantage of this is that you get a much clearer Image. The major disadvantage is that you can only scan flat images (NB II is much sale; and less messy to take a photograph of Tiddies and scan that rather elso capable of a greater range of resolution and



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### **Filler**

ere less susceptible to outside influences.
There are a wide range of scannere evallable.
At the chesper end of trings are hand scanners.
These are channel because the man declara-

At the chasper and of brings are hand scientists. These are chasped because the manufacturers in average to be compared to be compared to the charge of the

The other sort of scenner is a flatbed. This is much more impressive-looking and produces a more reliable result. The Sharp JX senes are generally regarded as the best but for their high price they would need to be

#### **PICTUREWARE**

Infested of buying all link excomment and stropping with I proteinly out out always get assembles allow as provided to the protein and the pro



This scene sheem scene of the difficulties you may come series when examining artheted. The scene is a 1989 size is an opicif your proteoms when printing. Also, the odd frings to caused by somning a picture in a screened precedent—a measurer for instance.

#### FROM SCREEN TO PAGE

A lunny thing happened on the wey to the punite it's a rare imaga you grab yoursell that comms out pariect. There will always be some sort of mess, a nasty colour bies or perhaps some smeggy noise bits that head briging up.

use was read suppring control to the Death - changing resolutions, cropping images, altering color velues - but for sealing pro work you need is appositised and preprocessor. Our methy, these come in two flavours. Plumate and Art Department? Professional. Plumate is excellent for creating went defects but sadly lacks a 24-bit option. ADPon has 24-bit appaintly but it is the traceless at levertion.

processing effects. It is also a lot more expensive.

Some of the effects you can actively see shown.

In the box-out on this page,
but even if you are not after
any perincular effect is useful
to load your mage into an art
pericage before you incomo-

rele it into your OTP package — it only to check it is in the night format. Heres or Interface word mean much to you OTP package because it's dealing with pages and not screens but the aspect reton may get somewid up if you are using a family format I busely it is a good does to threatait everything tick lores on OPackt, it doesn't make if the mage will no longer it on the screen, the open of the check in the content of the mage will not only the order of the mage will not be only the order of the mage will not be only the order of the mage will not be only the order of the mage will not be only the order of the mage will not be only the order of the mage will not be only the order of the mage will not be only the order of the mage will not be only the order of the mage will not be only the order of the mage will not the order of the mage will not not be only the order of the

aspect will be preserved

This is by no means on axhaustive treatise on how you should go about edding or to DTP but we hope I has given you a few more ideas about ho to improve your efforts. Happy processing.

#### Popular Effects And How To Do Them

Qualitative area images which contain two risks (and finewhere three coloring). The intege is assembly procurated watchly the same, but whill a different screen until for each coloring platfor of sequent roted risks between the background and the primary talk. This effect can be fudged in Different using the public

In 18-calcular incole with a graystonia snape Leier the find clarked colour. Add a bit wore blue for excerple and then springd this calcular to the trivial fighter. This will give a fairly good sension on the your calcudat maints or least.

The sea many dis Re on Direct by using the image of the body to be about the bid account the steps of the image of the country of the country

as much room as a 15 calour langue bestare it is and an obselvation. They are landered rooms that a gain "If MALEST (2015) (2016) — after landered room (If MALEST (2015) (2016) — after landered room (If MALEST (2015)) (2016) — after landered room (If MALEST (2016)) (2016) — af

Always remember when prescring inequal to lead enough of a mangin around the edges. This notes to examinate and professional before the whole or do space annualing into the edges of your picture bases.



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Linking your Amiga to a Modem can help you communicate with the rest of the world. Dave Burns takes a look at Comms for beginners...

#### ALL MOD COMMS

Comms, like many other computer terms, is an abbreviation. In this case. It stands for Communications, communicating via a telephone line. If may be hard to believe, but with the addition of enother piece of hardware to your set np, every character you type can appear almost amultanequely on a computer screen anywhere in the world? So what is this mervellous piece.

of hardware which turns your comnoter into a communications device? The enswer is a Modern, which is standing for MODnietos-DEModnistor. These small devices connect voni machine's R\$232 port to a telephone line and sand a coded. (Modulated) signs down the line to the receiving Modern, which turns the eigns! back into something the computer understande (Demodniated). In this way, your Amiga can Talk to a PC, or e BBC can Talk to a

Spactrum There are many types of Middem evellable, from a V21 to a 9600HST at orices ranging from a tenner secand hend to £1,000. Modems, like computers are many end vaned the sceed of operation (Baud rate), the stundard (the comms method and style of operation) and the different lights, sonnds, etc. all help to make choosing a Modern as difficult as chocoling a computer - with one melor difference. When you buy a Modern as a caparete item, it will work on most mechines. Let's have a look at some of the varieties evall-

#### SETTING THE

The most widely used type of Modern is a Haves Standard or Heves-compabble Modern, anet as most printers are Epson competible, most moderns

ere Heyes-compatible. Suffice to say that the first question to ask yourself when buying a Modern is 'is it Heyescompatible?" If it isn't, then put it down and find one that is Now that speed do we went? Speeds start el 300 end oc up to 9600 and beyond! The gracker the speed, the less time it takes to send or receive information . Ivel to confuse matters, these ere often referred to in the form of V numbers, and refer to how many bits per second ere transmitted and received. The Modern in the shop may be referred to as Haves-compatible V22bis which means very little nniesa you know the V numbers.

- 1. V21 = 300tx/300rx 2. V23 = 78tx/1200re 3. ¥22 = 1200tx/1200rx
- 4. V22bie = 2400tx/2400re 5. V32 = 9500tx/9600re
- 0. HST = 450 tx/14400rx 7. V32bis = 14400tx/14400re

Most moderns offer not only the V number steted, but ell the lower speeds as well. You may be offered a V21 et a good price, but it world be a take aconomy so the lime spent transmitting and receiving will cost a fortune. The minimum you would want is a V22. The ideal Modern will be a V22bis giving you a spend of 2400 out and 2400 in. 5, 6, and 7 in the chert above are not really needed unless you plan to spend a long time on the telephone. So we have established that we ideally need a Hayes compatible V22bis Modern

#### SMOOTH OPERATOR To operate the Modern, efter con-

necting if to your computer end telephone line as per the instruction mannel, you need to convert your keypreeses into something the Modern will understand, Just Ike a printer, you need a 'driver', in this

case, terminal software. The most basic will be just a blank screen with e fleshing cursot, while complex software will enable you to dial, connect, and complete the los on segmence with one simple keypress or

Before we even try to use a Modern, it might be worthwhile heving a cruick look at what it is going to cost to run. Remember, you are using the telephone line, and BT do like to grab thes pound of Bash You don't need & apecial telephone line to nos e Modem, and the charges for a Modern call ere the same as a local call using voice. So, if you phone e local number the cost per minnte is the same as for a sooken call

Now we're set up, let's look at what we can do with a Modern, Well one thing is to pass messages and Ses to another Modern-owning friend But why stick to one on pag? The whole idea of a Modern is to enable you to expend your horizons. This is whell a Ballutin Board is all about. A Rulletin Board System (BBs) te penerally set up and run by a fan of compuler comms and run from his or her home. This parson, known to users as a Sysop, runs the doard for loss, but benefits by meking many friends in the computer world. Having said that the board is run from home. though, this does not mean that it le e sub-standard service. Most Sysops, quite rightly, are very prout

BITING THE SULLET What you will find on a bulletin board is a set of areas or conferences that deal with a partain topic - general chat, salos end wants, adventure

#### RECOMMENDED BOARDS

All the lollowing boards have networking facilities, so everything you Jeave on there will else susses on the other boards in this list. Have fue, and should you wish to contect CU Amige vie your Modern, leave a message on any of these beards and we'll pick it up at the Hotel.

The following UK beards are part of the Worldwide FNET Network: Lightfinders Place Micro-Mols

The Penthouse Shafflold All. Solution Track 83 STeelth BBS System X BBS The Leser Dome BBS interNet The Hatel 8BS

The Tayern Mayorick Davistion The Gemes Machine Fortress BBS Reachout CBBS Sanitarium BBS **Durantum RRS** 

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074-232-5232 N95-385-1351 053-255-7739 D90-481-2934 827-258-4352 029-639-5935

B83-483-1389 881-445-8514 067-081-3803 027-480-5670 081-317-3158 027-058-3278 048-040-3375 D21-707-0881



you can leeve messages to other users. either by name, or open to sill. You will also find erses where you can download and upload software end even where you can send E-Meil to enother user. Unitke general messages, E-Mail is totally private and can only be read by the person you have sent it to, You will elso find on all boards the option to 'Page the Sysop' if ever you have a problem or don't understand something, then

use this option and the Sysop, if he's

around, will nome on line and speak

In you directly via the Modern.

Now you have a Modern, know what a bulletin board le, and are ready, let's gocali a board. If you have the option somewhere on your softwere, set the Baud rate to the highest your Modern has (1200 or 2400, for example), set the configura tion to word length 8 bits, no parity, and 1 stop bit (8N1), and go into taxminal mode. Now lest the Modern is

ready by typing AT <Return> AT is TION, a command is about to follow You should have an Ok report, which meane everything is line. Now we will no octo a board. The example their followe is for the HOTEL 88s in Rochesier, Kent, but if you know the number of a board in your sine, then moon to fall trades. Ashort list of recommended boards can be found on the

Type in ATD 0634831359 < Returns All being well, the Modern will now be clicking and puring. By typing the

above instruction, you have alerted the Modern to a command coming (AT) and told is to dial (D) and given The number you went if to dial Providing the number lenot angaged, the phone of the other end will nog.

high-plighed whistle. This is a sound seni out by your Modern to the Modern at the bulletin board. What it's saving is 'HI, I wish to pomgoed of (whalever you set) and set to SN1' This will be followed by a very short squeet from the other end which is 'HI, I have matched speeds

with you and am now alerting the software so that your user can see what le happening. The next thing you'll see is a walcome screen, followed by some prompts to: your input. In the case of the Hotel it will ask you to enter your name, or 6 if you are a new uper. This is known so the 'Log On Sequence' and, as a new user, you will be asked a bnef senes of quastione, such as name, phone number, sto You will also al some slege be esked for a password. This is MOST important. The password is to make sure that nobody else can log on in your name, so don't forget it, or peas it eround. The only people ever to see your password are you and the Syeop. Now that you are 'ON LINE' follow prompts and menus to discover the wonderful world that has just opened up to you. Il you gel stuck, remembai that on each menu there is a halp command, and most Sysops will be only too happy to offer muchneeded essistance

In next's month Comms feeture, we'll be taking a look at a few of the bulletin boards in presier datail and we'll also be giving you the low-down on the best Moderns to purchase

**BULLETIN BOARDS'** CODE OF CONDUCT There are a number of important rules and conventions to follow when using e bulletin

- a Always fill in the registration pegas correctly and truth-
- # Try to lesve or respond to messages each time you log on.
- a Avoid using bad lenguage or messages that may cause
- offence. e Do not 'trough' e board (io. log on download averything
- and log off). e Nover drop your carrier, elwsys log off properly.

### information

From the latest advance in motion simulators and arcade juggernauts, to the monthly games charts, Rik Haynes gives us his expert opinions on what's hot and what's not, in the ever-busy computer world...

#### SHAKE, RATTLE AND ROLL

As the arcade industry looks for exciting new concepts to tempt en ever more sophisticated and diverse eudience, motion simulators are finally meking their presence felt. Rik Havnes reports...

That yet the service of the service

Perhaps this is the ulterate form of secapium? Such simulation technology was first developed back in the 1960s to train jet lighter pilots without relang their appareture planes, As the heart ware became more advanced, whole missions could be tried in umpleen off levent verys and practiced to perfection. It was involved that their numbers of the perfection.

experience would leak out in his metalearment who what is not him to metalearment who what is not him to a metalearment who what is not him, and will him more maked, classe to surface. This protektype motion patients mystem could take the waven into "another world" with 3D wide vessors, motion, settence sound world, Vorsitoms and, most starting of all, arones. Nobody, was writing to back, such a really write with any in three days. What does a Space Insense cound works, such a really make any in three days. What does a Space

No, Deney would be the company to characteristically grab a side of the action sheat of the competition. Drawing upon the imagination and witching of George Lucas, the man who gave us Star Wass and Indiana Jones. Drawgiand entered a new era of thems. park entertainment with the introduction of Star Tours in 1967. People actually felt what they stark, creating a sersation of realism previously unvestched. You don't need millione of dollars and a bunch of Disney Imagineers to create a fur experience, though.

Segs has been adding sensation to video games for over seven years now it started with Hang-On, where players set on the moleca of a motorcycle and rocked from left to right to handle any bends in the circuit. A string of hydrasis cally-enhanced coin-ops followed — Space Harrier, Cut Run, Affecturer, Powershift and Gallary Force III—outhin making in the allocument cone Rodo. This gooly contraption was, in fact, a

nating in the allowmentioned RSB0. This goody contraption was, in fact, a video game console that could revolve 300 degrees in all directions — back and forth, right and left. Motion sciences is almost gueranteed from a quick ride in



#### FAIRGROUND OF THE FUTURE

A CCI Cent. in a season, the behaviority version of a transposed branger car. Proper adoption in the Season of the

this beby. The Dynamic Direct Dimension Burst Out System (D<sup>3</sup>BOS) from Taito is beacuity *R360* built for

in Japan, thus is big business and it's sixely to baccome horeasenedy important in the new intopping malls and multiplex constraints program (s) across Europe Thase index providing (s) across few can easily longet. There's another big pitus for the further program of motion immiliations: they can festal in a very broad market including adults, children, alludents and fourface.

Rediffusion's Communder, its recently inunched two-seet interactive enterturement simulator, comes with high resolution graphics, CD stereo yeard and software exclusively designed by LucasAria Entertainment. the company responsible for highly respected Amiga games like Monkey lelend and Their Finest Hour. Rediffusion is promising a variety of games scenarios for the system, includinc the likes of air combet and submarate warfare, which will resploit The pistform to suit all testes and inteest groups' Hopefully, the bilents of Industrial Light & Magic, Lucasitim's special effects division in charge of the sturning visuals seen during films like Betum of the Jed and Terminator 2. will also be brought into play "Our world beating flight simulator experties monutes. The most melistic expenences.

essures Rediffusion. What fills, chills and spills does the future hold, there? Flanded Waters of Autodesis once servessend a bitzare vital resity notion forom as the option poet of the properties of the proper

With enthusiasm and profit in such plentiful abundance, how much longer will it be before a sex simulator armyel?

#### THE WAY WE WERE

· Bio-Challenge, the first effort from Delphine, suddenly hit our Amige acreens. Sadly any slickness evident in later spice like Cruise For A Corpse and Another World wasn't yet within the grasp of these pionearing designers and programmers. As a result, the game quickly disappeared without a trace. In those dark days, Delptine was best known as the French record company responsible for the succass of ponyectional musician Richard Claderman.

 US Gold briefly firted with a low price for titles such as Viguante, Last Duel and Human Killing Mechani. The most significant reason contributing towards the subsequent tailure of the label rea secret to this day - was it the £15 price point or the sad games themasives?

 Anil Gupte, smisble boss of Anco, welled the offices of nearly every computer games magazine in the country. His humble briefcase contained an early prototype of what would become the world's most famous focite simulation. Everybody who saw Kick Off was impressed with the fast pace and the

fact that they simply couldn't stop playing it. The rest, as they say, is history, Psygnose had something really growy looming on the horizon. This project from newcomer.
 Reflections would literally beat the competition into submission with an overload of ocious, hard semipled sounds and smooth perallax scrolling. Shadow Of The Basel certainly was a visual feast. The third outing in this approved series of arcade adventures should be out soon.

 Games ontwers took a surreal twist when Logotron unleashed Archipelagos on an unsuspecting public Following along similar lines to Firebird's brilliant The Sentine! this action strategy production was binesed with basty 3D graphics and that often neglected ingredient. Originality.

 Mariech, a small publisher responsible for lacklustre productions like Nigel Manselland Phantom Fighter, finally closed down. Founder David Martin now works for Gremlin where he helped secure the rights to the forthooming Mansell driving game.

#### TWO YEARS AGO

 The chequebooks were in evidence again this month, as the biggest and smallest software houses scrumbled for licenses to prestigious move and music properties including Mad Max, Iron Maxten and Dirty Harry. What happened to those games, eh? On a lighter note, at least The Edge falled to deliver anything connected with Yellowhead Street. This dire action cop show, a sort of cross between Milami. Vice and Dempsey & Makepeece from Yorkshire Talevision, never even made it to a second series The Edge didn't stop there shough. The first 24-hour music video station was also targeted for garrination. Players were supposed to become rock stars on MTV and, or, that was about it. Thankbully, we heard nothing more of this appailing idea

 Electrocom disbblied in the dwindling coin-ap conversion merket with Time Soldiers and Mr Dol More 'classics' were promised but none schielly appeared.

 Fifty years after the real Battle of Britain, Lucasfilm Games and US Gold relived Their Finest Hour with a smestring sir combat game which deservedly won the CU Screenster medel of honour. It still knocks the socks off games which solely rely on speed, long-range radars and handy sin-fo-air res-ales. Movivist, the mammoth creation from Meeletrom Games and Microprose, was another top accornic in this issue

Legendary Amige artist Tobias Richier boidly doodled where no-one had drawn before with a selec-fion of glorous sketches of Star Trek's USS Enterprise. Does this guy ever find the time to sleep?

· Bob Jacob of Cinemaware was full of enthusiasm for the CDTV and his enhanced compact disc version of it Came From the Desert. There will be a new inclusing that will force the music, move and software industries to work together. We're still waiting for that one, Bobby

#### ONE YEAR AGO

for release on the CDTV and other systems later this year

· Buzz revealed Dosan had snapped up The Addems Family, US Gold wanted a Young Indiana Jones and Team 17 was attempting to emulate the violence of cult 70s move Roterbal

 Dan Singsby tracked down pictures of veteran TV detectives like Sleve McGarrett from Hawaii Five-O, Starety & Hutch, Dison of Dock Green, Columbo and Charle's Angels. Why did he bother? Kriselis had done such a good job with the Arrige adaption of Hill Street Blues that he was a bit bobby

 Sally Systems Limited ran a recruitment advert for programmers who fancied the idea of helping dysteed children by producing the right educational software for schools, private futors and families

 Psygnosia did it agen. With our CD-based Fractal Engine we can do Star Wars. Top Gun. The Last Starfighter and anything of that lik," said co-tounder fan Heithenngton, "People will feel as if t'wy'n playing the movie." The first betch of Friedal Engine games are still in production and should be needy

 Did you know that TV eler gazer Patrick Moons used to own a Jupiter computer before he became the 'Gamesmastar' on Channel 47 This, and other useless and/or totally made-up facts, were unwelled in our infernous And Finally section

#### WHO IS THE AMIGA'S 'FATHER'?

1 Jay Miner 2 Manic Miner

3 Fay Miner

#### WHAT'S THE ODO ONE

1 Thunderhawk (Core Design) 2 LHX Attack Chopper

(Ejectronic Arts) 3 Gunshio

(Microprose)

#### WHICH ONE OF THESE **GAMES OIDN'T COME** FROM THE ASSEMBLER OF KEVIN BULMER?

1 Terminator 2 (Ocean)

2 Corporation (Core Design) 3 Deuteros (Activision)

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### the softwar harts

#### **TOP TWENTY AMIGA GAMES - Full Price**

1 PROJECT X (Years 17 Seftware) Corring straight in at number one. Team's bistering strade worth a biast. Set over set massive levels and featuring some

2 BLACK CRYPT (Electronic Arts) EA's soic RPG, in the same style as Dungson Master and Eye of the Behokler, is set in one anormous dungeon and a packed with some of the most develop puzzles and trace ever seen in a computer game. The kitch graphics and excellent sound effects complement and stready excellent game. CU Arrigin.

croerster, 90% FORMULA ONE GRAND PRIX Microproce)
This one seems to have taken up permanent residency in the

Crammond has designed what is undoubledly the best reong three levels of detail and counter drawn up from videos of their rest-life counterparts. Outstanding staff CU Arriga Supersian

4 A320 AIRBUS (Thelion) The level of detail in this flight emilborders on the pedantic at

Thiston can be believed, you should be able to pilot the real thing if you master this. For people who want a break from the routne of blesting enerty MiGs to death, this is a perfect respite

S HARLEQUIN (Gremlin) Gremin's latest platformer has you taking the role of Hazlegues a lanky and somewhat gorraless aprile who has to traverse twenty-four huge levels in search of four parts of a broken heart On your travels you have to contend with a veriety of switchrecited puzzies, soring-loaded floors flying elem clocks and other such westleses. Need we say more? CU Amios

6 SPECIAL PORCES (Microproso) This one talled to make the grade and was correspondly not

reviewed in CU Arriga. The game puts you in charge of a band of each i mercenesses, four of whom have to complete various anti-terronal messons. There are a truck load of options to wade frough, all very repressive and detained but once you make the greade section when the mission beams, the name light apart Yawn 7 ELVIRA II (Ascolusio)

he busty one returns for enother ripping RPG adventure which the time sees the player etterripting to track down Edvin a key-necests and set her free from her movie studio confines. Atmosphere graphics and some well-thought out levels make the an engrosoring game, but not a petch on the gory original. CU Amga Rused 71%

SHADOWLANDS (Demark)
Yet acother RPG majors the loop liventy and the si one of the best. Taking control of four warriering adventurers, you must fight your way through missive caves and dungeons in search of your earthly remains. Features Teque's Photoscape lighting

and creates and electric almosphere. CU Spromstar, 91%

WATEAN 6 (Origin)
Then comply entary other gene out them with the depth of the Librar cope. A sit begins one storty might when, after shall mig your loo with pizza and a natural 1 Lave Lucy a mysterious fort weren you into the fentuatic renims of Britanna at the start of a magical quest. This is certainly the best in the Literal series and hits been espacially recoded for the Arriga. A fenteur role-devino freet. CU Supervisor, 95%.

10 TITUS THE FOX (Titus)

Another new entry and deservedly so Sel over autour levels, the most is on to track down Titus ladnepoid gety. Foxy in your Wity are sword-weiding nomedic tribsemen, bottle throwing down and outs, skin head thugs and all kinds of nestees. This w definitely the French learn's most polished platform game yet. even better than the highly acclaimed Sixes Strathers, CU.

11 CASTLES (Electronic Arts)

sted as a Middle Ages. Set Ony, Castley lets the player dragn and build their limitely castle and then delend it from all lake to build and you're liable to run out of cash if you get too carried away. Once you've built your castle, you'll then have to

ession of your abode CU Arrige Screenstar, 95%. 12 ROBOCOD (Millonnium)

Salthanging in them, Milennum's James Pond character requifaces in a souped-up sequel. This time he's littled out with a upwards. There are lots of traps and puzzles dollad about each poor scraling in parts. GU Superster, 93%

13 JIMMY WHITE'S SNOOKER (Virgin) Without doubt the best shooter game to have graced any home computer or video game. The sample user-interleos lets you afternot almost any shot imaginable and the attention to

detail a superb. Lats of mos louches, such as a fiv wanderno contain a superior, but on the sources, such as a sy wardering across your monitor and lege-pulling balls, add is humorous ele-ment to the proceedings. OU Schemiter, 80% 14 ANOTHER WORLD (Delphine/U.S. Geld) Delphines come book adventure opens up a new style of gamepley. It's a british time of animation, puzzling, and arcade

who's hear nateguised into another dimension. Summers at every twist and turn, with this left to the magnetics. Not in the 15 PGA TOUR GOLF (Electronic Arts)

his is probably the best Golling game in history, it is wasn't for Microprose's golling apic. The game is still challenging, with over 16 pro goders to compete ageinst, over several different

16 LEISURE SUIT LARRY V (Siorre) Lovebie lad, Larry, is currently working for a cable porn channel and, as the mangs take a nose-dive, for Big comes up with the ides of a tacky bland Deln style show Larry is picked to host the show and is given the task of tracking down the steamest obballer in the country interaction is limited to the constant dickno

17 POPULOUS 2 (Electronic Arts)

One of the bad pames ever released. No ledding Basasaly the tures. A genume cleaza. CU Artige Superster, 97

18 PINHALL DREAMS (21st Contury) lesigned by top demo outilit. Silents, there are four tables on aren't introped. Each table is three acreers long and there's an actinguate principal of sound effects, but meximity the tactie from

of the real thing is lost. CU Arriga Rated 53% 19 INDY HEAT (Storm) Leyland's superbicom-op makes it onto the Armos and is a very playable conversion. All the options are in place, including the all-important lurbos, and each race truck leatures some devices turns and ragged strughts. Unfortunately, there are only for one-screen tradic to compete over and things become a bit pediestrian after a white. CU Arriga Resed 80%.

20 LEMMINGS (Psygnosis) who don't own a copy of this infuri-

There can't be many people who don't own a copy of this in stringly addictive game. Over a year in the charts, and it's still selling, a testament to its originality and brilliant garreptey. The base arms to guide a group of lemmings somes a horizontally soroling landscape. On their way, the mop-top into display their suicatel fundaments by attempting to jump of any convenent isage. By using a set of cone, it's possible to guide them to

Chart supplied by Microllyte

MICRORYTE CHARTS From this month onwards. CU Amiga heve teemed up with Microbyte, e nationwide chein of computer stores, to bring you the very best Amige cherts eppearing in env magazina. Using Electronic Point of Sele (EPOS) systems, Microbyte cen monitor each title's performence on e delty basis, thus providing the most up to date Information et the click

#### TOP THE SUDGET BELLASES RAINBOW ISLANDS (HIS

of e button.

Squad) 2 JAMES POND (GBH)

3 F16 COMBAT PILOT (Action 16)

4 1st DIVISION MANAGER (Codemesters) 5 KICK OFF 2 - Giants of

Europe (Anco) 6 TOYOTA CELICA RALLY

7 POPULOUS (Star

Performers) 8 PAPERBOY (Encore)

9 ROBOCOP (Hit Squad) 10 MIDNIGHT RESISTANCE (Hrt Squad)

Chart supplied by retail chain. MicroByte

Steve Kenn - Fire and log. Eve of Tony Dillon - John Barnes, Space Crusade, Castics

# well schooled in the analysis and analysis analysis and analysis and analysis analysis and analysis analysi

In the first of a new monthly educational column, Mike Gerrard takes a look at the intriguing uses to which the Amiga Is being put to in classrooms up and down the country.

#### SCHOOLS OUT An increasing number of education enthontes and

asyet (Could do better when it comes to the computers they be sen used to using in the classroom. They're haring their backs on the fredtionally approved machines the his BICs and Northus, which have long had a stranglehold on the Births elucation system, and en looting instead to more exciting and economically prised computers—the of Harflags, which is roughly half the price of the Acorn Archimeter.

the PC was a braches methins, the Ametriad PCW is even processor. the Ampa genesia machine and the BBC on educational machine is that propile are wishing no to the fact has the option and the BBC on educational machine of the the Ampa capeany is gastern machine to the tomtion of the ampa capeany of the ampa capean of the Ampa capeany of the Ampa capean, and the ampa capeany of the ampa capean, and such as the ampa capean capean, and as a position of the ampa capean capean, and a special capean capean capean capean, and open capean capean capean capean capean, and capean capean capean capean capean capean, and capean capean capean capean capean capean capean, and capean capean

#### GOING TECHNO To get the most out at using computers in schools,

you internally med more their a single signed BEO-Dimachiles, footback way in the settlency cupboant, and meant to provide for the needs of a class of 33 and class most market schools have from a mass. Notingham, where 24 machines provide the achool with one of the most schools have been considered to the control of the control of the control of the most up-th-old for information. Tachnology departments in footbag them are the world conf. pupils can use software publishers and publishers and pupils can use software publishers and confidence of the publishers and the publishers and confidence of the Parting Challes Print, Publishers Cholos, Pinn Pail and Squareman for example.

Another well-carpaged school is the Felbram Commentily School in Middlesser, with 127 melworked Andpas, mostly in the computer occur, with worked Andpas, mostly in the computer occur, with others dotted another that school is the set, make. The ert department uses Delates Parint and vanous amendan programs, one Amga is used for restalla design, others we being used to produce a surfool promotional video, and here is a forbithing Antiga provides for the achieva's commended but restall provides for the achieva's commended but restallate provides for the achieva's commended but restall provides for the achieva's commended but restall provides for the achieva's commended but restall provides for the achieva's commended but provides for the achieva's commended provides and provides provides and provides provide

The man responsible for this activity is Tony Loughlin, Feitham's head of Business and Information Studies One edvantage the Amiga hes, he says, is the so-called High Street effect. Many pupils now have 16-bit computers like the Amigs of home. They use them anywey, they're exclied by them, they like using them. They can no longer say, 'Oh, the BBC's the boring old school computer that's pot dreadful graphics'. Even the Archimedes as good as it is, is the computer you only find in schools, not in Dixon's window or the everage kid's bedroom. It's the Arnige you find them using there. Can you imagine them coming Into echool, after spending several hours picyling games which have state-of-the-art graphics and sound, and the teacher having to try to exode them with a technically interior mechane? Plas thay can do their homework on them, and just bring the disk in to work on the same machine at school, it also enconrages them to see their Amige of home on

#### SHAPE SHIFTING Art and design is an area where the Amiga

is provide particularly populars, with the cosy ability to manipulate shapes, self the chance to decide and experience with partners and obtains. The Analysis shapes program is used in the Home Economic departments of many exhauls, solivoine pupils growing the control of the

To being the stop rouse full circle you have the activities of Kent Education Tolevision, etherwise known as KEV, and deficially not to be contained with KTYL. The specialist educational video producties company uses three Amiss 2000s and three Amiss 250s at its studies in Eower to help products be pequality graphics for its videos which, amongst other things, help to teach the acts a computer gene is eight. Another effect, to Commodore's delight, is theil where Arrigas ere introduced into achocis, a high proportion of leachers and up buying one for them selves. It's e snowball effect in that once the lock have become hooked at actical they of their parents might also buy a machine to use all home.

#### GOOD ALL-ROUNDER

The versatility of the Amigs, and its wide use in lots of creative ereas like Illm-making and design, benefits everyone. To expand on Tony Loughtin's point, it isn't the Archimedes and it certainly isn't the Nimbus theil you find being used in design studios, TV studios, theatres, offices, music studios and just about everywhere else. This wide-ranging use creates a wide range of software, and schools can buy this log - and usually et an educational discount. Where e machine is parceived as being an educational computer. Ike the BBC, thus Inevitably hee an effect on softwere developer who specifically target educational needs. If asked to dealer an ert package for use in schools, would you come up with Deluxe Pairs? And what's the point of mastering educational software in school when you liven leave and ere faced with a range of different mechines? There even't too many BBCs in use in offices

Obviously, schools aren't merely choosing Amigas because they're cheap and pupils era likely to have them all home. Educational demands etill have to be met. There are two ways of approaching the National Curriculum, Tony Loughto of Fathern School excising, 'One is to follow it absolutely, to any that we have to cover this and that, and therefore allowing that to dictate your timetable. But there is another more creative way. to go about it, which is the way we want to do it, and that is to decide what it is you want to do, in terms of project work and so on just as you did before, but then look at it carefully end creatively and be eble to say, right, well in doing that project National Curriculum, And the Amiga is Ideally suited to this more creative approach."

Can the Antigo satisfy the demands of the Michael Comization of mosts; chaugh? The Asia ST has usually been rejected as aspect to the ST has usually been rejected as aspect to the which is a special property of the ST has usually been rejected as aspect to the state of the state of the state of the the heart of determed the Brimdiphen Local Authority who monthly mested in no less than 105 Antigas, porticity/for use in set and mixed. They deply aspooning visions, in particusar at the Joseph Chemedrain Collipse Here a music technical property of the state of the Amagin in music, in pagindess of the new Herona Contabular to magindress for the new Herona Contabular to magindress for the new Herona Contabular to sequences as the set of the Amagin in music, in pagindress for the new Herona Contabular to sequences as the set of the Amagin in music, in sequences for the new Herona Contabular to sequences for the new Herona Contabular to sequences for the new Herona Contabular to sequences are the set of the Amagin to see the second contabular to see the

There are an untoid number of uses to which the Arniga can be put. Educationed associations up and down the country are contribusly refining the very computing is taugait. (anotally, the Arning as moving out of its spaciellst ghetto and being used in math resorns, in physical education at and design and many other executions.)

Over the next lew months will be taking a look et some of the more interesting ways in which the Arrage has been put to work in the education field as well as reviewers get the latest software and technical innovetions. If you're a student ell e school or college which uses Arraiges extensively, why not drouge the main state as about #9.



8 motorock of 27 Amigae forms the moin componer hackings at Fehnam Community School. 8 special BTP unit produces at the exhapts Pressing and hacking



Degraceous's school in lightlinghow has sen of the must advanced nativers of Amples in the country and popule him across is a veel range of software including Dalens Paint, Dulans Print, Per Pai and Publishers yielded. Chalessly the belong has a big internal in DTP and various courses leave pupils well-versed in computer technology.



that pupils with reading and writing difficulties respond well to the Amigs. It containly lan't short of odvestion softward many subsets are even writing their own Technology programs to saler for areas that even t covered.

#### THINGS THAT MAKE YOU GO

How many times have you bought a game that's, frankly, below standard? Rik Haynes, European Editor of LOG-IN, asks if the Amiga has a bright future if publishers keep producing such rubbish?





DEJA VU

Final lambals story, the eagus conteams company, out to break for them and fortures, opening a large amount of cash resouring the rights to a host moving content of the properties are through unit to get a product out on the properties are thought and properties of the properties o

Ocean, at least, have gone some way to rechying past offences with the release of Robocop 3. and The Address Family, However, pour software larf acidly restricted in Tim Isonassi, and the shaaton begs the quastion Wity floos this happen? And, more importantly. 'Can't be prevented?' As players clarges to make a supplication.

and pages active and more integration is game, before quality and more integration is going to be the cover it there are no aborticate to be the cover it is gating very hard for the new today to be about the standard of the new today of the best saling Artica game of the contribution. Formula from Gender Prize (Microprose), Rebocod (Millieminim) and clienty. White's Shooker (Vilgin) - could be the last of the great creations from minimore comparises who are being franched by pushed out by the bugset fiel.

Games Rie Populous II (EARBullings) and Snacowierde (Domarty Toque) took a group bil designers, programmers, arets and members many morths to produce. A creative group of gene engineers ottan bounce new concepts of each other, so it's important that these ensains sweetshops are encouraged in order to keep new lineth, and indexented dieses coming. Ideas that are neel induced by profit.

SEEDY CD ...

Whist the development freterinty makes its first steps into the new age of CD-ROM, the situation of lackfustre gamsplay is going to get fai worse. Costs will use dismetically, while flashy prese tion will try to make up for a lack of depth and playability. I doubt whether many outfits are going special. Let's face it, most of the stuff released so Iss on COTV just doesn't make the grade. When it comes to CD ROM, designers in Tokyo, Osaka. Institute in Kobe, to study the heavy concepts of of the incredible machine's capabilities. The British division of Commodore cen't even issue a permament release date for the ASTO CD-ROM let alone get the product itself out. Only Psygnosis, with the Fractal Engine, has shown this level of commitmant to CD-ROM hardware and software

So, what one other publishmes in the UK and some Energy delign beare the difficult harselsten services Energy delign beare the difficult harselsten period? Net all x, straight, Supprinting their compact period to the services and the services of the services and the services and the services of the services or the services and the services and the services to define the services and the services the services and the services and services and the services and services and the services services and services and services services and services service

Many observers have suggested Commodors about discrete related to the American adult of the American adult of

toke wan't speaked on Nemocrat Emerationers' Speakers. This could be the reactor bearing the card size on the new Ampa ABO model? It would be containly rathe such or certainly rather such or certainl

**ETERNAL HOPE** 

I leastly admir that the Arrige holds the potential to bridge the gap between video game console and expensive personal computer, but le it going to have an easy ride? I don't think so. Japanese and American firms aren't Interested, Only the Europeans, the British and Germans in particular, still have the incentive and capability to push the nobody is willing, and able, to handle the challenges ahead. Fast action is required to catch up Publishers and developers must make a law tough decisions and plough more back into research and development. The channel of communication between punter and publishal should elso be operad, Inform the offending company and through the letters pages of CU Arriga, fellow players of the reasons behind any discontentment. It can't and there, though New talent needs to find a forum to showcase ideas and work, and all the powboys need to be Irozen out. Only then will the Arrige stand a chance spains! the consoler

LOG-IN is Japon's leading computer

TOP TEN PERSONAL AMIGA HATES

1 Workeach has to be leaded from disk 2 Did activers reluses to work on new methines 3 A lileppy disk can be demaged if it is removed while the drive is working 4 learnessing cast of genes is a pain in the ass

4 increasing cest of general to e pain in the way.

5 Demos that lignere any additional fleepy disk drives sheeldn't be allneed.

8 TV medolater confid have been built to.

7 Fleepy disk drives continuelly click if them ion't a.

7 Finepy dust erves comments sets in months in the interest in the first inside them.

8 The position of the onjoil switch on the power block really sucks

8 Most CDTV settwere is a rap.

8 Most CDTV serowere at prep 10 Why are we still walking for the A576 CD-ROM





#### **Real Time Digital Effects**





MEGAMIX moster is a low cost, high specification digital effects cartridge that place into your printer port. It will allow you to sample or record stress mound from almost any missical source. Special effects such as endo can be added in real time, perfect for the up and centing Kartaneke singer who was to get the life to conditionable that you will find that MEGAMIX measures preferences and ease of our is warmstand by any rivin. Just by it is not up to the life to conditionable that you will not alway it is and you.

CUT-Romove samples between pointers and stores it in the car buffer.

COPY-Copies sample between pointers into the cut buffer. INSERT-Inserts the contents of the cut buffer into the

SPLICE-Removes the sample

between pointers, stores it in the cut buffer then silvies the rest of the soundwave together. CHOP-Removes all of the soundwave except for the sample

DELETE-Erases the sample

MIX-Mixes the contents of the cut buffer with the soundways.

FLIP-Reverses the sample PLAY CUT-Replays the contents of the cut buffer.

41 101 101 ECHO-Adds user definable acho between pointure IN-Makes Sample between point start quietly and build up to full

OUT-Offers the apposite effect to

PHASER-Adds phase shift to your

LOUDER-Adds volume

OUIETER-Decreases volume SEEK 0-Finds zero points nearest pointers, used in leasing.

FILTER-Removes hist or high fremoney noise from your sample PACK-Removes every 2nd sample between pointers.



(44) \$19662369

DIRECT-Plays incoming sound direct through Amiga

SYNTH-Adds user definable distortion to sound in Real Time PHASER-Applies variable phase shift again in Real Time.

STEREO ECHO-Adds digital delay between L & R speakers VIRRATO-Rapidly varies frequency of sound.

ECHO-Adds acho to and incoming sound in Real Time LOAD IFF-Load e single IPP

SAVE IFF-Saves your sample between pointers as an IFP file LOAD SONG-Load e song

> SAYE SONG-Save e some LOAD MIDFLoad e mid

SAVE MIDI-Save e midi



Other features include . .

\* Pully multi-tasking 4 3D animated learn

 Compatible with workbench 2.0.
 Runs perfectly on the new ASOOP \* Mono sampling up to \$2KHz. \* Stereo sampling up to 26KHz.

\* 4 or 8 bit same <sup>4</sup> Thru-port for printer or Vid \* Stereo 3.5mm jack plug and lead Rombo Productions Baird Road, Livingston SCOTLAND EHS4 7AZ Tel: (44)-0506 466601 Fax: (44)-0506 414634



## The Electronic Ant Coleny SIMANT \*\*\* \*\*The Electronic Ant Coleny \*\*The





Aris. You've shared your food 🌲 your home 🤰 and your planet with them you've stepped on thom 🤰 sprayed them 🌲 cursed them and bombed them Now you can be them.

CBM AMIGA · APPLE MAC · IBM PC & COMPATIBLES



